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=> ile reaf

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=> file reg

 COST IN U.S. DOLLARS
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 FULL ESTIMATED COST
 0.21
 0.21
 0.21

FILE 'REGISTRY' ENTERED AT 14:25:01 ON 27 NOV 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ${\tt ZIC/VINITI}$ data file provided by ${\tt InfoChem.}$

STRUCTURE FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4
DICTIONARY FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

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http://www.cas.org/ONLINE/UG/regprops.html

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 generic.str

chain nodes:
1 2 3 4 5 6 7 9 10
chain bonds:
1-2 1-7 2-3 2-6 3-4 4-5 4-9 5-10
exact/norm bonds:
1-2 1-7 2-6

exact bonds : 2-3 3-4 5-10 normalized bonds : 4-5 4-9

Hydrogen count :
3:>= minimum 2 5:>= minimum 1
Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS

L1 STRUCTURE UPLOADED

=> d l1 L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

2 ANSWERS

=> search 11 sss sam SAMPLE SEARCH INITIATED 14:28:13 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 24708 TO ITERATE

8.1% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

PROJECTED ITERATIONS: 484755 TO 503565
PROJECTED ANSWERS: 196 TO 792

.2 2 SEA SSS SAM L1

=> d scan

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 4H-1-Benzopyran-4-one, 7-[[6-0-(carboxyacetyl)-β-D-

glucopyranosyl]oxy]-5,6-dihydroxy-2-(4-hydroxyphenyl)- (9CI)
MF C24 H22 O14

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN D-Glucopyranose, 6-(hydrogen propanedioate) 1-(1-naphthaleneacetate) (9CI)
MF C21 B22 010

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> search 11 sss full FULL SEARCH INITIATED 14:28:50 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 490346 TO ITERATE

100.0% PROCESSED 490346 ITERATIONS SEARCH TIME: 00.00.04

987 ANSWERS

L3 987 SEA SSS FUL L1

=> d 13

L3 ANSWER 1 OF 987 REGISTRY COPYRIGHT 2006 ACS on STN

RN 911697-85-3 REGISTRY

ED Entered STN: 31 Oct 2006

CN 4H-1-Benzopyran-4-one, 8-[6-0-(carboxyacety1)-2-0- β -D-glucopyranosy1- β -D-glucopyranosy1]-5,7-dihydroxy-2-(4-hydroxypheny1)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H32 O18

SR CA LC STN Files: CA, CAPLUS

Absolute stereochemistry.

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
 - 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d scan

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 5-[6-O-(carboxyacetyl)-B-D-glucopyranosyl]oxy]-2(3, 4-dihydroxyphenyl)-3-[(2-O-[2-O-[(2E)-3-[4-[6-O-[(2E)-3-[4-(B-D-glucopyranosyl)oxy)-3-hydroxyphenyl]-1-oxo-2-propenyl]-B-D-glucopyranosyl]oxy]-3-hydroxyphenyl]-1-oxo-2-propenyl]-B-D-xylopyranosyl]-6-O-((2E)-3-[4-(B-D-glucopyranosyl)ay]-3,5dimethoxyphenyl]-1-oxo-2-propenyl]-B-D-glucopyranosyl]oxy]-7-hydroxy-(9CI)
- MF C82 H93 O48

Absolute stereochemistry. Double bond geometry as shown.

PAGE 1-B

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

- 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- TN Furfuryl alcohol, malonate (6CI)
- ME C8 H8 05

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Poly(oxy-1,2-ethanediyl), α-(carboxyacetyl)-ω-[dodecyl-2-(12-
- tridecenyloxy)ethoxy]- (9CI)
- MF (C2 H4 O)n C30 H56 O5 IDS, PMS, COM

$$H_2C = CH - (CH_2)_{11} - O - CH_2 - CH_2 - O - CH_2 - CH_2 - O - CH_2 - CO_2$$

$$D1-(C_{12}H_{25})$$

- 1.3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN 1-Benzopyrylium, $5-[[6-0-(carboxyacetyl)-\beta-D-glucopyranosyl]oxy]-3-$ TN $[[6-0-[(2E)-3-[4-[(6-0-[(2E)-3-[4-(\beta-D-glucopyranosyloxy)-3$
 - hydroxyphenyl]-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-3hydroxyphenyl]-1-oxo-2-propenyl]-β-D-qlucopyranosyl]oxy]-7-hydroxy-2-
 - (3,4,5-trihydroxyphenyl)- (9CI) C60 H65 O36
- MF COM

Absolute stereochemistry. Double bond geometry as shown.

PAGE 1-B

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Argentate(1-), [propanedioato(2-)- κ 0](1,3,5,7-
- tetraazatricyclo[3.3.1.13,7]decane-kN1)- (9CI)
- MF C9 H14 Ag N4 04
- CI CCS, COM

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1,3-Benzenediol, 5-(hydroxymethyl)-, homopolymer, ester with
 [5-[[3,5-bis[3,5-bis[2-[2-(2-methoxyethoxy)ethoxy]ethoxy]phenyl]methoxy]phenyl]methoxy]-1,3-phenylene]bis(methylene) bis(hydrogen propanedioate)
 (2:1) (9CI)
- MF C63 H88 O27 . 2 (C7 H8 O3)x

CM

PAGE 1-A

$$\label{eq:meo-ch2-ch2-o-ch2-$$

CM 2 CM 3

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 9,10-Anthracenedione, 2-[[6-0-(carboxyacety1)-β-D-glucopyranosy1]oxy]-1,8-dihydroxy-3-methy1- (9CI)
- MF C24 H22 O13

Absolute stereochemistry. Rotation (-).

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[2-[4-[2-[4,6-bis(trichloromethy1)-1,3,5-triazin-2-yl]ethenyl]phenoxy]ethyl] ester (9CI)
- MF C18 H13 C16 N3 O5

$$\begin{array}{c} \text{CC13} \\ \text{N} \\ \text{N} \\ \text{CH} = \text{CH} \\ \end{array} \\ \text{CH} = \text{CH} \\ \begin{array}{c} \text{O} \\ \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CO}_2 \text{H} \\ \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CO}_2 \text{H} \\ \end{array} \\ \end{array}$$

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1(2H)-Anthracenone, 8=[(6-0-[6-0-(carboxyacetyl)- β -D-glucopyranosyl]- β -D-glucopyranosyl]oxy]-3,4-dihydro-3,9-dihydroxy-6-methoxy-3-methyl-, (3S)- (9CI)
- MF C31 H38 O18

Absolute stereochemistry. Rotation (-).

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 9,10-Anthracenedione, 1-[[6-0-(carboxyacety1)- β -D-glucopyranosy1]oxy]-8-hydroxy-3-methy1- (9CI)
- MF C24 H22 O12

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- Uridine, 2',3'-O-(1-methylethylidene)-, 5'-(hydrogen propanedioate) (9CI) TN ME C15 H18 N2 O9

Absolute stereochemistry.

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- 1-Benzopyrylium, 3-[[6-0-(carboxyacetyl)-2-0-β-D-xylopyranosyl-β-D-glucopyranosyl]oxy]-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)- (9CI) IN
- C29 H31 019 MF

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[1-(cyclohexylmethyl)-3-[4-(1,1-dimethylethyl)-3-[(9H-xanthen-9-ylacetyl)amino]phenyl]propyl] ester, (S)- (9CI)
- MF C38 H45 N O6 COM

CI

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3
- 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN 4H-1-Benzopyran-4-one, 7-[[6-O-(carboxyacety1)- β -D-glucopyranosy1]oxy]-2, 3-dihydro-3, 5-dihydroxy-2-(4-hydroxypheny1)-8-(3-6) IN methyl-2-butenyl)-, (2R-trans)- (9CI)
- MF C29 H32 O14

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Praseodymate(1-), triaqua(ethanol)bis[propanedioato(2-)-0]-, hydrogen (9CI)
- MF C8 H16 O12 Pr . H
- CI CCS

● H⁺

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[[2-[2-[[(4-ethenylphenyl)methyl]thio]ethoxy]ethyl]thio]methyl] ester (9CI)
- MF C17 H22 O5 S2

PAGE 1-A

= CH₂

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 5-[[4,6-bis-O-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-7-hydroxy-3-[[5-O-[(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-β-D-glucopyranosyl]oxy]-2-(3,4,5-trihydroxyphenyl)-, chloride (901)
- MF C42 H41 O25 . C1

PAGE 2-A

■ c1 =

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Benzeneacetonitrile, $\alpha = [[6-0-(carboxyacety1)-\beta-D-(carboxyacety1)]$
 - glucopyranosyl]oxy]-, (αR)- (9CI)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Carbamothioic acid, [[[6-O-(carboxyacety1)-β-D-glucopyranosyl]oxy]methyl]methyl-, S-(4-phenoxybutyl) ester (9CI)
- MF C22 H31 N O11 S

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN β -D-Glucopyranose, 6-(hydrogen propanedioate) 1-(2,2,3,3-
- tetramethylcyclopropanecarboxylate) (9CI)
- MF C17 H26 010

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic-1,3-14C2 acid, monoethyl ester (9CI)
- MF C5 H8 O4

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[2-(4-octylphenoxy)ethyl] ester (9CI)
 MF C19 H28 05

$$HO_2C-CH_2-C-O-CH_2-CH_2-O$$
(CH₂) 7-Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, monoethyl ester, sodium salt (9CI)
- MF C5 H8 O4 . Na

Na

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, monooctadecyl ester (9CI)

MF C21 H40 O4

Me- (CH2)17-0-C-CH2-CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono(9H-fluoren-9-ylmethyl) ester (9CI)

MF C17 H14 O4

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 1-Propanol, 3-bromo-, malonate (7CI)

MF C6 H9 Br O4

Br- (CH2) 3-0-C-CH2-CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono(2,2,2-trinitroethyl) ester (9CI)

MF C5 H5 N3 O10

$$\begin{array}{c|c} NO_2 & O \\ | & | \\ O_2N - C - CH_2 - O - C - CH_2 - CO_2H \\ | & NO_2 \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L.3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- TN Propanedioic acid, mono[2-[[(3-methyl-1,4-dioxido-2quinoxalinyl)carbonyl]oxy]ethyl] ester (9CI)
- C15 H14 N2 08 MF
- COM

- 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl]
- ester (9CI) MF C12 H9 N O6
- COM

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 3-[[6-0-(carboxyacetyl)-β-D-glucopyranosyl]oxy]-5-(β-D-glucopyranosyloxy)-7-hydroxy-2-(4-hydroxy-3-methoxyphenyl)-(9CI)
- MF C31 H35 O19

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[(1R,4aS,10aR)-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenyl]methyl] ester (9CI)
- MF C23 H32 O4

Absolute stereochemistry. Rotation (+).

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[(2-nitrophenyl)methyl] ester (9CI)
- MF C10 H9 N O6

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 5-[4-O-acety]-6-O-(carboxyacety])-β-D-glucopyranosy](oxy]-7-hydroxy-3-[6-O-((2E)-3-(4-hydroxypheny])-1-oxo-2-propenyl]-β-D-glucopyranosy](oxy]-2-(3,4,5-trihydroxyphenyl)-, chloride (9CI)
- MF C41 H41 O23 . C1

Absolute stereochemistry. Double bond geometry as shown.

PAGE 1-A

PAGE 2-A

● C1-

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 3-[[6-0-(carboxyacetyl)- β -D-glucopyranosyl]oxy]-7-[[6-0-[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-propenyl]- β -D-glucopyranosyl]oxy]-2-[3-(β -D-glucopyranosyloxy)-4-hydroxyphenyl]-5-hydroxy-(9CI)
- MF C45 H49 027

Absolute stereochemistry. Double bond geometry as shown.

PAGE 1-A

PAGE 2-B

CO₂H

CM 1

⁹⁸⁷ ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN L3

IN Propanedioic acid, [[bis(4-methoxyphenyl)phenylmethoxy]methyl][[(carboxyac etyl)oxy]methyl]-, 1,3-diethyl ester, compd. with N,N-diethylethanamine (1:1) (9CI) C33 H36 O11 . C6 H15 N

MF

CM 2

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Phenol, ethenyl-, homopolymer, 1,1-dimethylethyl propanedioate (9CI)

MF (C8 H8 O)x . x C7 H12 O4

CM 2

CM 3

D1-OH

D1-CH-CH2

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 1-Benzopyrylium, 5-[[6-0-(carboxyacety1)- β -D-glucopyranosy1]oxy]-3-[[6-0-[(2E)-3-(3,4-dihydroxypheny1)-1-oxo-2-propeny1]- β -D-

glucopyranosyl]oxy]-7-hydroxy-2-(4-hydroxyphenyl)- (9CI)

MF C39 H39 O21

I COM

Absolute stereochemistry. Double bond geometry as shown.

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 5'-Adenylic acid, monoanhydride with propanedioic acid (9CI)

MF C13 H16 N5 O10 P

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Thulium, tetraaqua(nitrato-O)[propanedioato(2-)-O]- (9CI)

MF C3 H10 N O11 Tm

CI CCS

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[3-methyl-5-(3,5,6,6a,7,8,9,10-octahydro-9-hydroxy-7,8-dimethyl-3-oxo-1H-naphtho[1,8a-c]furan-7-yl]pentyl] ester (9CI)
- MF C23 H34 O7

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)
- MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x CI PMS
- CM

1

CM 2

CM 3

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN β -D-Glucopyranoside, $(3\beta,12\beta)$ -20-[[6-0-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl)- (3α) -12-hydroxydammar-24-en-3-yl 2-0-[6-0-(carboxyacetyl)- β -D-glucopyranosyl]- (9C1)
- MF C57 H94 O25

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, monoethyl ester, homopolymer (9CI)

MF (C5 H8 O4)x

CI PMS

CM

1

0 || EtO-C-CH2-CO2H

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 1-Benzopyrylium, 3-[[6-0-(carboxyacety1)-β-D-glucopyranosy1]oxy]-5-(β-D-glucopyranosy1oxy)-7-hydroxy-2-(4-hydroxypheny1)-, chloride (9C1)

MF C30 H33 O18 . C1

Absolute stereochemistry.

● C1-

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[(3E)-4-(1,4-dihydro-3,8-dihydroxy-1,4-dioxo-2-naphthalenyl)-3-butenyl] ester (9CI)

MF C17 H14 O8

Double bond geometry as shown.

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Manganate(2-), diaquabis[propanedioato(2-)-0]-, dihydrogen (9CI)
- MF C6 H8 Mn O10 . 2 H
- CI CCS, COM

●2 H+

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Chromium(1+), pentaaqua[propanedioato(2-)-01]-, monohydrogen, (OC-6-22)-
- (9CI) MF C3 H12 Cr O9 . H
- CI CCS

● H+

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Malonic monoperoxyacid, OO-tert-butyl ester (7CI, 8CI)
- MF C7 H12 O5

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 4H-1-Benzopyran-4-one, 3-[[6-0-(carboxyacety1)-2-0- β -D-glucopyranosy1- β -D-glucopyranosy1)-7-(β -D-glucopyranosy1oxy)-5-hydroxy-2-(4-hydroxypheny1)- (9C1)
- MF C36 H42 024

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Aldol, malonate (5CI)
- MF C7 H10 O5

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Cuprate(1-), [propanedioato(2-)-0]bis(tricyclohexylphosphine)- (9CI)
- MF C39 H68 Cu O4 P2
- CI CCS, COM

PAGE 1-A

PAGE 2-A

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Hexonic acid, 5-0-(2-0-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)
- MF C45 H68 O21

HO O
$$CO_2H$$
HO OH O Me CO_2H
OH OAC OH OAC

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 3-[[6-0-(carboxyacetyl)- β -D-glucopyranosyl]oxy]-5-

 $\label{eq:hydroxy-2-[4-hydroxy-3-[6-0-(2E)-3-[3-hydroxy-4-[6-0-(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-B-D-glucopyranosyl]oxylphenyl]-1-oxo-2-propenyl]-B-D-glucopyranosyl]oxylphenyl]-7-[6-0-(2E)-3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-B-D-glucopyranosyl]oxyl-(9CI)$

MF C69 H71 036 CI COM

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A

PAGE 1-B

PAGE 2-B

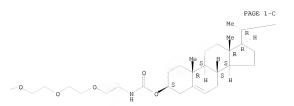
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- MF C22 H26 O10

Absolute stereochemistry. Double bond geometry as shown.

$$\begin{array}{c} \text{Me-C=C-C=C-C=C} \\ \text{Me-R} \\ \text{Note of the content of the$$

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 3'-Guanylic acid, 2'-deoxyguanylyl-(3'→5')-2'-deoxyguanylyl-(3'→5')-2'-deoxyguanylyl-(3'→5')-2'-deoxyadenylyl-
 - (3'→5')-2'-deoxyguany1y1-(3'→5')-2'-deoxy-,
- 3'-[1-[(carboxyacety1)oxy]-17-[(3β)-cholest-5-en-3-yloxy]-17-oxo-4,7,10,13-tetraoxa-16-azaheptadec-1-yl] ester (9CI)
- MF C102 H143 N31 O46 P6

PAGE 1-B



PAGE 1-D

PAGE 2-A

PAGE 3-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-

C-Ph O N-Bu-t C-N-C-O-CH₂-O-C-CH₂-CO₂H

Na

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

 $\label{eq:proposed} \mbox{IN} \quad \mbox{Propanedioic acid, } \mbox{mono} [2-[1-[(2S)-5-[(aminoiminomethyl)amino]-1-oxo-2-monomethyl)] and $-1-0xo-2-monomethyl $$ (aminoiminomethyl)$ and $-1-0xo-2-monomethyl $$ (aminoiminomethyl)$ and $-1-0xo-2-monomethyl $$ (aminoiminomethyl)$ (aminoim$

 $\label{lem:condition} \begin{tabular}{ll} [\ [(1,2,3,4-tetrahydro-3-methyl-8-quinolinyl) sulfonyl] amino] pentyl]-4-piperidinyl] ester (9CI) \\ \end{tabular}$

MF C26 H40 N6 O7 S

CI COM

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 1-Benzopyrylium, 3-[[6-0-(carboxyacety1)- β -D-glucopyranosy1]oxy]-7-[[6-0-[4-(β -D-glucopyranosy1)oxy]- β -D-glucopyranosy1]oxy]-5-hydroxy-2-(4-hydroxypheny1)- (9C1)

MF C43 H47 O25

Absolute stereochemistry.

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, monooctyl ester (9CI)
- MF C11 H20 O4

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 5'-Adenylic acid, monoanhydride with propanedioic acid, ion(1-), hydrate (9CI)
- MF C13 H15 N5 O10 P . x H2 O

Absolute stereochemistry.

●x H₂O

- L3 987 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 1-Benzopyrylium, 3-[[3,6-bis-O-(carboxyacety1)-β-D-glucopyranosy1]oxy]-2-(3,4-dihydroxypheny1)-5,7-dihydroxy- (9CI)

Absolute stereochemistry.

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> save temp 13 hemimalont/a
ANSWER SET L3 HAS BEEN SAVED AS 'HEMIMALONT/A'

=> file caplus COST IN U.S. DOLLARS

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=> 13

L4 2980 L3

- => prodrug
- 11327 PRODRUG
 - 11481 PRODRUGS
- L5 16059 PRODRUG
 - (PRODRUG OR PRODRUGS)
- => 14 (L)L5 L6 9 L4 (L)L5
 - ь э ь 4 (ь)ь
 - => D L6 1-9 TI
 - L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 - TI Heterocyclic anti-viral compounds comprising metabolizable moieties and their uses as inhibitors of hepatitis C virus replication and/or proliferation for treatment of hepatitis C infection
 - L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 - TI Preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators
 - L6 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
 - TI A Prodrug Approach toward the Development of Water Soluble Fluoroquinolones and Structure-Activity Relationships of Quinoline-3-carboxylic Acids
 - L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs
- L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Terminally-branched polymeric linkers containing extension moieties for prodrug conjugates
- L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line
- L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Regioselective synthesis of acyclovir and its various prodrugs
- L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on SIN
- TI Preparation of 3,4-diaryl-2-hydroxy-2,5-dihydrofurans as prodrugs to cyclooxygenase-2 (cox-2) inhibitors and as non-steroidal anti-inflammatory agents
- L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Process for preparing dioxolenone derivatives used for making prodrug esters and intermediates
- => d 16 1-9 ti fbib it
- L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Heterocyclic anti-viral compounds comprising metabolizable moieties and their uses as inhibitors of hepatitis C virus replication and/or proliferation for treatment of hepatitis C infection
- AN 2005:1126672 CAPLUS
- DN 143:405897
- TI Heterocyclic anti-viral compounds comprising metabolizable moieties and their uses as inhibitors of hepatitis C virus replication and/or proliferation for treatment of hepatitis C infection

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IN Singh, Rajinder; Goff, Dane; Kolluri, Rao S. S.; Darwish, Ihab S.;
Partridge, John; Cooper, Robin; Lu, Henry H.; Park, Gary
PA Rigel Pharmaceuticals, Inc., USA
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SO PCT Int. Appl., 149 pp.

CODEN: PIXXD2

DT Patent LA English FAN.CNT 1

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| PI | WO | 2005 | 0977 | 60 | | A1 | | 2005 | 1020 | | WO 2 | 005- | US99 | 09 | | 2 | 0050 | 325 | |
| | | W: | ΑE, | AG, | AL, | AM, | AT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, | |
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| | | | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, | GQ, | GW, | ML, | |
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| | US 2005239751 | | | | | | | 2005 | 1027 | | US 2 | 005- | 9082 | 3 | | 2 | 0050 | 325 | |
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| | | | | | | | | | | | | | | | | | | | |

OS MARPAT 143:405897

IT Heterocyclic compounds

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidates; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT Antiviral agents

Drug delivery systems

Hepatitis C virus

Human

(preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT Drug delivery systems

(prodrugs; preparation of substituted heterocyclic prodrugs for treating HCV infection)

US 2004-582903P

20040624

IT Infection

(viral; preparation of substituted heterocyclic prodrugs for treating HCV infection)

IT 867215-83-6P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-tert-butyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of substituted heterocyclic prodrugs for

treating HCV infection)

1 867215-36-9P 867215-95-0P, tert-Butyl 4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propanoyl]benzoate

867216-30-6P, tert-Butyl 2-[3-[12-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]propanoyl]pyrrolidine-1-carboxylate 867216-39-5P, tert-Butyl 4-[3-Chloro-2-[5-[3-[2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamido]phenyl]isoxazol-3-yl]phenoxy]piperidine-1-carboxylate 867216-46-4P, Di-tert-butyl [[4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl]isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]phenyl]methyl]phosphonate

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of substituted heterocyclic prodrugs for treating HCV infection)

667931-30-8P 867215-38-1P, 2,2-Dichloro-2-(dihydroxyphosphonyl)-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-39-2P. 2-Chloro-2-(diethoxyphosphonyl)-N-[3-[3-(2,6-dichlorophenyl)-5isoxazolvllphenvllacetamide 867215-40-5P, 2-Chloro-2-(diethoxyphosphonyl)-2-fluoro-N-[3-[3-(2,6-dichlorophenyl)-5isoxazolyl]phenyl]acetamide 867215-41-6P, 2-(Diethoxyphosphonyl)-2,2difluoro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-42-7P, 2,2-Dichloro-2-(diisopropoxyphosphonyl)-N-[3-[3-(2,6dichlorophenyl)-5-isoxazolyl|phenyl|acetamide 867215-43-8P, 2,2-Dichloro-2-(diethoxyphosphonyl)-N-[3-[3-(2-trifluoromethylphenyl)-5-867215-44-9P, 2,2-Dichloro-2isoxazolyl]phenyl]acetamide (diethoxyphosphonyl)-N-[3-[3-(2-fluoro-6-trifluoromethylphenyl)-5isoxazolyl]phenyl]acetamide 867215-45-0P, 2,2-Dichloro-2-(tertbutoxycarbony1)-N-[3-[3-(2,6-dichloropheny1)-5-isoxazoly1]pheny1]acetamide 867215-48-3P, 2,2-Dichloro-2-(isopropoxycarbonyl)-N-[3-[3-(2,6dichlorophenvl)-5-isoxazolvl|phenvl|acetamide 867215-51-8P, 2,2-Dichloro-2-[[[(1S)-ethoxycarbonvl-1-(methyl)methyl]oxy]carbonvl]-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-52-9P 867215-53-0P, 2,2-Dichloro-2-[[(1-adamantyl)oxy]carbonyl]-N-[3-[3-(2,6dichlorophenyl)-5-isoxazolyl]phenyl]acetamide 867215-54-1P, 2,2-Dichloro-2-((1R,2S,5R)-menthyloxycarbonyl)-N-[3-[3-(2,6dichlorophenyl)-5-isoxazolyl|phenyl|acetamide 867215-55-2P, 2,2-Dichloro-2-(sec-butoxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5isoxazolyl]phenyl]acetamide 867215-56-3P, 2,2-Dichloro-2-(cyclohexyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5isoxazolyl]phenyl]acetamide 867215-57-4P, 2,2-Dichloro-2-(neopentyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5isoxazolyl]phenyl]acetamide 867215-58-5P, 2,2-Dichloro-2-(benzyloxycarbonyl)-N-[3-[3-(2,6-dichlorophenyl)-5isoxazolvl]phenvl]acetamide 867215-59-6P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[2-[3-(2,6-dichlorophenyl)-5isoxazolyl]phenyl]acetamide 867215-60-9P, 2,2-Dichloro-2-(tertbutoxycarbonyl)-N-[2-[3-(2,6-dichlorophenyl)-5-isoxazolyl]-4pyridyl]acetamide 867215-61-0P, 2,2-Dichloro-2-(tert-butoxycarbonyl)-N-[3-[3-(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]acetamide 867215-62-1P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-cyclopropyl-6trifluoromethylphenyl)-5-isoxazolyllphenyllacetamide 867215-63-2P. 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-chloro-6-methoxyphenyl)-5isoxazolyl]phenyl]acetamide 867215-64-3P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(4-chloro-2-dimethylaminopyridin-3-yl)-5isoxazolyl]phenyl]acetamide 867215-65-4P, 2,2-Dichloro-2-(methoxycarbonyl)-N-[3-[3-(2-trifluoromethylphenyl)-5-867215-66-5P. 2.2-Dichloro-2isoxazolvl]phenvl]acetamide (methoxycarbonyl)-N-[3-[3-(2-fluoro-6-trifluoromethylphenyl)-5isoxazolyl]phenyl]acetamide 867215-67-6P, 2,2-Dichloro-N-[3-[3-(2,6dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4v1)methvl]acetamide 867215-69-8P, 2,2-Dichloro-N-[3-[3-(2,6dichlorophenyl)isoxazol-5-yl]phenyl]-N-[(5-tert-butyl-2-oxo-1,3-dioxol-4-867215-71-2P, 2,2-Dichloro-N-[3-[3-(2-chloro-6vl)methvllacetamide methoxyphenyl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4yl)methyl]acetamide 867215-72-3P, 2,2-Dichloro-N-[3-[3-(2,4dichloropyridin-3-yl)-5-isoxazolyl]phenyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4y1)methy1]acetamide 867215-73-4P, 2,2-Dichloro-N-[3-[3-(4-chloro-2dimethylaminopyridin-3-y1)-5-isoxazoly1]pheny1]-N-[(5-methy1-2-oxo-1,3dioxol-4-yl)methyl]acetamide 867215-74-5P, 2,2-Dichloro-N-[3-[3-(2,6dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-4y1)methyl]acetamide 867215-75-6P, 2,2-Dichloro-N-[3-[3-(4-chloro-2-

```
dimethylaminopyridin-3-yl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-
                             867215-76-7P, 2,2-Dichloro-N-[3-[3-(2-
dioxol-4-v1)methv1]acetamide
chloro-6-tert-butoxycarbonylphenyl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-
oxo-1,3-dioxol-4-y1)methyl]acetamide 867215-77-8P, 2,2-Dichloro-N-[3-[3-
(2-chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]-N-[(5-isopropyl-2-oxo-1,3-
dioxol-4-yl)methyl]acetamide 867215-78-9P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-propyl-2-oxo-1,3-dioxol-4-
vl)methvl]acetamide
                    867215-79-0P, 2,2-Dichloro-N-[3-[3-[3-(2,6-
dichlorophenvl)-5-isoxazolvl]phenvl]-N-[(5-cvclohexvl-2-oxo-1,3-dioxol-4-
v1)methyllacetamide 867215-80-3P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenyl)-5-isoxazolyllphenyll-N-[(5-ethyl-2-oxo-1,3-dioxol-4-
yl)methyl]acetamide
                    867215-81-4P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-
yl)methyl]acetamide 867215-82-5P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-isopropyl-2-oxo-1,3-dioxol-
4-y1)methyl]acetamide 867215-84-7P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)-5-isoxazolyl]-4-pyridyl]-N-[(5-pentyl-2-oxo-1,3-dioxol-4-
yl)methyl]acetamide
                    867215-85-8P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenyl)-5-isoxazolyl]phenyl]-N-[(5-ethoxycarbonyl-2-oxo-1,3-dioxol-
4-y1)methyl]acetamide 867215-86-9P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenyl)isoxazol-5-vl]phenyl]-N-[2-(phenylsulfonyl)ethyl]acetamide
867215-89-2P, 2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-
v1]pvridin-4-v1]-N-[3-oxo-3-(pvridin-3-v1)propv1]acetamide 867215-92-7P,
4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-
yl]acetamido]propanoyl]benzoic Acid 867215-96-1P, 2,2-Dichloro-N-[2-[3-
(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-(morpholino)-3-
oxopropyl]acetamide 867216-00-0P, Ethyl 2-[4-[3-[2,2-Dichloro-N-[3-[3-
(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamido]propanoyl]phenyl]acetat
   867216-01-1P, N-(4-Amino-3-oxo-5-phenylpentyl)-2,2-dichloro-N-[2-[3-
(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamide 867216-02-2P,
2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-
oxo-3-(piperidin-4-yl)propyl]acetamide 867216-03-3P,
2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-
oxo-3-(pyrrolidin-2-yl)propyl]acetamide 867216-04-4P, tert-Butyl
3-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-
yl]acetamido]propanoyl]piperidine-1-carboxylate
                                                867216-06-6P.
2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-
oxo-3-(piperidin-3-yl)propyl]acetamide
                                       867216-07-7P, tert-Butyl
4-[4-[3-[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-
v1]acetamido]propanov1]phenv1]piperazine-1-carboxylate 867216-08-8P,
4-[[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-v1]pyridin-4-
vl]acetamido]methyl]-2,6-dimethylphenyl propylcarbamate
                                                        867216-11-3P.
2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N'-
methylmalonamide
                 867216-15-7P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]phenyl]-N-[[2-oxo-5-(pyrrolidin-2-yl)-1,3-
                              867216-16-8P, 2,2-Dichloro-N-[3-[3-[3-(2,6-
dioxol-4-vl]methvl]acetamide
dichlorophenyl)isoxazol-5-vl]phenyl]-N-[[2-oxo-5-(pyrrolidin-2-vl)-1,3-
dioxol-4-vllmethvllacetamide monotrifluoroacetate
                                                   867216-32-8P,
2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[[2-
(pyridin-2-yl)ethoxy]methyl]acetamide
                                       867216-34-0P, 2,2-Dichloro-N-[3-[3-
[2-chloro-6-(piperidin-4-yloxy)phenyl]isoxazol-5-yl]phenyl]-N-[(5-
isopropyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide
                                                  867216-36-2P,
2,2-Dichloro-N-(3-ethynylphenyl)-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-
                     867216-40-8P, 2,2-Dichloro-N-[2-[3-(2,6-
vl)methvllacetamide
Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[(1-methyl-1H-imidazol-2-
yl)methyl]acetamide 867216-42-0P, [4-[3-[2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]benzyl]phosphon
ic Acid
         867216-47-5P
                        867216-52-2P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]phenyl]-N'-(3-morpholinopropyl)malonamide
867216-53-3P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-
yl]phenyl]-N'-[(pyridin-2-yl)methyl]malonamide 867216-54-4P,
2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]-N'-(2-
```

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hydroxyethyl)malonamide
                        867216-55-5P, Propyl [4-[[2,2-Dichloro-N-[3-[3-
(2,6-dichlorophenyl)isoxazol-5-yl|phenyl|acetamido|methyl|phenyl|carbamate
867216-56-6P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazo1-5-
yl]phenyl]-N-[[2-oxo-5-(piperidin-3-yl)-1,3-dioxol-4-yl]methyl]acetamide
867216-57-7P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-
yl]phenyl]-N-[(5-neopentyl-2-oxo-1,3-dioxol-4-yl)methyl]acetamide
867216-58-8P, 2,2-Dichloro-N-[(5-cyclobutyl-2-oxo-1,3-dioxol-4-yl)methyl]-
N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]acetamide
                                                            867216-59-9P,
Isopropv1 2,2-Dichloro-3-[[3-[3-(2-chloro-6-methoxyphenv1)isoxazol-5-
vllphenvllaminol-3-oxopropanoate 867216-60-2P, tert-Butvl
4-[[2,2-Dichloro-N-[2-[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-
yl]acetamido]methyl]benzoate
                             867216-61-3P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[4-(2-
morpholinoethoxy)benzyl]acetamide 867216-62-4P, 2,2-Dichloro-N-[2-[3-
(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[4-(4-ethylpiperazin-1-
yl)benzyl]acetamide 867216-63-5P, N-[(5-Benzyl-2-oxo-1,3-dioxol-4-
yl)methyl]-2,2-dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-
yl]phenyl]acetamide 867216-64-6P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-(2-morpholinoethyl)acetamide
867216-65-7P, 3-Chloro-2-[5-[3-[2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-
dioxol-4-vl)methvl]acetamido]phenvl]isoxazol-3-vl]benzoic Acid
867216-66-8P, 2,2-Dichloro-N-[3-[3-[2-cvclopropv1-6-
(trifluoromethyl)phenyllisoxazol-5-yllphenyll-N-[(5-isopropyl-2-oxo-1,3-
dioxol-4-yl)methyl]acetamide 867216-67-9P, 2,2-Dichloro-N-[(5-isopropyl-
2-oxo-1, 3-dioxol-4-yl) methyl]-N-[3-[3-[2-methoxy-6-
(trifluoromethyl)phenyl]isoxazol-5-yl]phenyl]acetamide
                                                       867216-68-0P.
Methyl 3-Chloro-2-[5-[3-[2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-
v1)methvllacetamidolphenvllisoxazol-3-v1|benzoate 867216-69-1P,
N-[3-[3-[2-(1-Acetylpiperidin-4-yloxy)-6-chlorophenyl]isoxazol-5-
yl]phenyl]-2,2-dichloro-N-[(5-isopropyl-2-oxo-1,3-dioxol-4-
yl)methyl]acetamide
                    867216-70-4P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[(5-neopentyl-2-oxo-1,3-
                             867216-71-5P, 4-[3-[2,2-Dichloro-N-[2-[3-
dioxol-4-vl)methvl]acetamide
(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]phenyl
diethvl phosphate
                  867216-72-6P, tert-Butyl 4-[4-[3-[2,2-Dichloro-N-[2-[3-
(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]acetamido]propyl]phenyl]pip
erazine-1-carboxylate
                      867216-73-7P, tert-Butyl 4-[3-[2,2-Dichloro-N-[2-
[3-(2,6-dichlorophenyl)isoxazol-5-yl]pyridin-4-
vl]acetamido]propvl]benzoate
                              867216-74-8P, 2,2-Dichloro-N-[2-[3-(2,6-
dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]-N-[3-[4-(piperazin-1-
vl)phenvl]propvl]acetamide
                           867216-77-1P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenv1)-5-isoxazolv1]phenv1]-N-[2-(4-fluorobenzov1)ethv1]Acetamide
867216-80-6P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-
isoxazolyl]phenyl]-N-[2-(benzoyl)propyl]Acetamide
                                                   867216-82-8P
867216-83-9P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-
isoxazolvl]phenvl]-N-[2-(benzovl)ethvl]Acetamide
                                                  867216-84-0P,
2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-isoxazolyl]phenyl]-N-[2-(4-
methoxybenzovl)ethyl]Acetamide 867216-85-1P, 2,2-Dichloro-N-[3-[3-(2,6-
dichlorophenv1)-5-isoxazolv1]phenv1]-N-[2-(4-chlorophenzov1)ethv1]Acetamide
867216-86-2P, 2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)-5-
isoxazolyl]pyridin-4-yl]-N-[2-(4-fluorobenzoyl)ethyl]Acetamide
867216-87-3P, 2,2-Dichloro-N-[3-[3-[2-chloro-6-(N-acetyl-4-
piperidinvloxy)phenvl]-5-isoxazolvl]phenvl]-N-[2-(4-
                               867216-88-4P, 2,2-Dichloro-N-[3-[3-(2-
fluorobenzoyl)ethyl]Acetamide
cvclopropvl-6-trifluoromethylphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-
fluorobenzoyl)ethyl]Acetamide
                              867216-89-5P, 2,2-Dichloro-N-[3-[3-(2-
chloro-6-methoxyphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-
fluorobenzovl)ethvl]Acetamide
                               867216-90-8P, 2,2-Dichloro-N-[3-[3-(2-
chloro-6-tert-butoxycarbonylphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-
fluorobenzoyl)ethyl]Acetamide 867216-91-9P, 2,2-Dichloro-N-[3-[3-(2-
chloro-6-hydroxycarbonylphenyl)-5-isoxazolyl]phenyl]-N-[2-(4-
fluorobenzoy1)ethyl]Acetamide 867216-92-0P, 2,2-Dichloro-N-[3-[3-[2-
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chloro-6-(methoxycarbonyl)phenyl]-5-isoxazolyl]phenyl]-N-[2-(4-
fluorobenzoy1)ethy1]Acetamide 867216-93-1P
                                                            867216-95-3P
                                            867216-94-2P
867216-96-4P
             867216-97-5P 867216-98-6P 867217-01-4P 867217-04-7P
867217-07-0P 867217-10-5P 867217-13-8P 867217-15-0P 867217-17-2P
867217-19-4P 867217-21-8P 867217-23-0P 867217-25-2P 867217-28-5P
867217-31-0P 867217-34-3P 867217-39-8P 867217-40-1P 867217-41-2P
867217-42-3P 867217-43-4P 867217-44-5P 867217-45-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
   (drug candidate; preparation of substituted heterocyclic prodrugs for
  treating HCV infection)
34255-65-7P, 2,2-Dichloro-2-(diethoxyphosphonyl)acetyl chloride
62458-19-9P, 4,5-Bis(bromomethyl)-1,3-dioxol-2-one 65874-27-3P,
tert-Butyl 4-Formylbenzoate 77902-92-2P, Benzyl 4,4-dimethyl-3-
oxopentanoate 80715-22-6P, 4-Bromomethyl-5-methyl-1,3-dioxol-2-one
86005-12-1P, 4-Bromomethyl-5-tert-butyl-1,3-dioxo1-2-one 95091-91-1P,
N-Methoxy-N-methylnicotinamide 98027-11-3P, Methyl 2,2,3-Trichloro-3-
oxopropanoate 118811-07-7P, tert-Butyl 4-(Tosyloxy)piperidine-1-
            133614-04-7P, 1-(Pyridin-3-yl)prop-2-en-1-one
carboxylate
149324-96-9P, tert-Butvl 4-(1-Hydroxyallvl)benzoate 188525-92-0P,
5-tert-Butvl-2-oxo-1,3-dioxole-4-carboxvlic acid 188525-93-1P,
5-tert-Butyl-4-hydroxymethyl-1,3-dioxol-2-one 188526-14-9P, Benzyl
2-diazo-4,4-dimethyl-3-oxopentanoate 188526-15-0P, Benzyl
4,4-dimethyl-2-hydroxy-3-oxopentanoate 188526-16-1P, Benzyl
5-tert-butyl-2-oxo-1,3-dioxole-4-carboxylate
                                             209551-44-0P.
4-(Bromomethyl)-5-(hydroxymethyl)-1,3-dioxol-2-one 867215-37-0P,
1-[[2,2-Dichloro-2-(diethoxyphosphonyl)acetyl]amino]-3-ethynylbenzene
867215-46-1P, 2-(tert-Butoxycarbonyl)-2,2-dichloroacetyl chloride
867215-47-2P, 1-[[2-(tert-Butoxycarbony1)-2,2-dichloroacety1]amino]-3-
ethynylbenzene 867215-49-4P, 2-(Isopropoxycarbonyl)-2,2-dichloroacetyl
         867215-50-7P, 1-[[2-(Isopropoxycarbonyl)-2,2-
chloride
dichloroacetyl]amino]-3-ethynylbenzene 867215-68-7P,
N-[3-(2,6-Dichlorophenyl)-5-isoxazolyl]-N-[(5-methyl-2-oxo-1,3-dioxol-4-
                  867215-70-1P, N-[3-[3-(2,6-Dichlorophenyl)-5-
vl)methvllaniline
isoxazolyl]phenyl]-N-[(5-tert-butyl-2-oxo-1,3-dioxol-4-yl)methyl]amine
867215-87-0P, 3-Ethynyl-N-[2-(phenylsulfonyl)ethyl]benzenamine
867215-88-1P, 2,2-Dichloro-N-(3-ethynylphenyl)-N-[2-
(phenylsulfonyl)ethyl]acetamide
                               867215-90-5P, 3-[[2-[3-(2,6-
Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]-1-(pyridin-3-yl)propan-1-
     867215-93-8P, tert-Butvl 4-Acrylovlbenzoate 867215-94-9P,
tert-Butvl 4-[3-[[2-[3-(2.6-Dichlorophenyl)isoxazol-5-vl]pyridin-4-
vl]amino]propanoyl]benzoate 867215-97-2P, 3-[[2-[3-(2,6-
Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]-1-morpholinopropan-1-one
867216-09-9P, 4-Formyl-2,6-dimethylphenyl propylcarbamate
                                                         867216-10-2P,
4-[[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-yl]amino]methyl]-2,6-
                               867216-12-4P, Methyl 2,2-Dichloro-3-(3-
dimethylphenyl propylcarbamate
ethynylphenylamino)-3-oxopropanoate 867216-13-5P, Methyl
2,2-Dichloro-3-[[3-[3-(2,6-dichlorophenyl)isoxazol-5-yl]phenyl]amino]-3-
              867216-17-9P, (S)-tert-Butyl 2-[3-(Benzyloxy)-3-
oxopropanoate
oxopropanovl]pyrrolidine-1-carboxylate
                                       867216-18-0P, (S)-tert-Butyl
2-[3-(Benzyloxy)-2-diazo-3-oxopropanoyl]pyrrolidine-1-carboxylate
867216-21-5P, (S)-tert-Butyl 2-[3-(Benzyloxy)-2-hydroxy-3-
oxopropanoyl]pyrrolidine-1-carboxylate 867216-22-6P, tert-Butyl
2-[5-(Benzyloxycarbonyl)-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate
867216-23-7P, 5-[1-(tert-Butoxycarbonyl)pyrrolidin-2-yl]-2-oxo-1,3-dioxole-
4-carboxylic Acid
                  867216-24-8P, tert-Butyl 2-[5-(Hydroxymethyl)-2-oxo-
1,3-dioxol-4-yl]pyrrolidine-1-carboxylate 867216-25-9P, tert-Butyl
2-[5-(Bromomethyl)-2-oxo-1,3-dioxol-4-yl]pyrrolidine-1-carboxylate
867216-26-0P, tert-Butyl 2-[5-[(3-Ethynylphenylamino)methyl]-2-oxo-1,3-
dioxol-4-yl]pyrrolidine-1-carboxylate 867216-27-1P, tert-Butyl
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2-[5-[[2,2-Dichloro-N-(3-ethynylphenyl)acetamido]methyl]-2-oxo-1,3-dioxol-

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4-yl]pyrrolidine-1-carboxylate 867216-28-2P, tert-Butyl
     2-[5-[[2,2-Dichloro-N-[3-[3-(2,6-dichlorophenyl)isoxazol-5-
     v1|phenv1|acetamido|methv1|-2-oxo-1,3-dioxo1-4-v1|pyrrolidine-1-
     carboxylate 867216-29-3P, tert-Butyl 2-Acryloylpyrrolidine-1-carboxylate
     867216-31-7P, tert-Butyl 2-[6,6-Dichloro-4-[2-[3-(2,6-
     dichlorophenyl)isoxazo1-5-yl]pyridin-4-yl]-5-oxohexanoyl]pyrrolidine-1-
     carboxylate 867216-33-9P, 2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]-N-[[2-
     (pyridin-2-v1)ethoxy]methyl]pyridin-4-amine 867216-35-1P,
     4-[(3-Ethynylphenylamino)methyl]-5-isopropyl-1,3-dioxol-2-one
     867216-37-3P, tert-Butvl 4-(3-Chloro-2-formylphenoxy)piperidine-1-
     carboxylate 867216-38-4P, (E)-tert-Butv1 4-13-Chloro-2-
     [(hydroxyimino)methyl]phenoxy]piperidine-1-carboxylate 867216-41-9P.
     2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]-N-[(1-methyl-1H-imidazol-2-
     vl)methvl]pvridin-4-amine 867216-43-1P, Di-tert-butvl
     4-Iodobenzylphosphonate 867216-44-2P, Di-tert-butyl [[4-(3-
     Oxopropyl)phenyl]methyl]phosphonate 867216-45-3P, Di-tert-butyl
     [[4-[3-[[2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-
     yl]amino]propyl]phenyl]methyl]phosphonate 867216-48-6P
     867216-51-1P 867216-75-9P, N-[2-(4-Fluorobenzoy1)ethyl]-3-ethynylaniline
     867216-76-0P, 2,2-Dichloro-N-(3-ethynylphenyl)-N-[2-(4-
     fluorobenzoyl)ethyl]Acetamide 867216-78-2P, N-[2-(Benzoyl)propyl]-3-ethynylaniline 867216-79-3P, N-[2-(Benzoyl)propyl]-3-[3-(2,6-
     dichlorophenvl)-5-isoxazolvllAniline 867216-81-7P
     RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT
     (Reactant or reagent)
        (intermediate; preparation of substituted heterocyclic prodrugs for treating
        HCV infection)
     867215-91-6
     RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological
     study); RACT (Reactant or reagent)
        (preparation of substituted heterocyclic prodrugs for treating HCV
        infection)
     103-74-2, 2-(2-Hydroxyethyl)pyridine 107-18-6, Allyl alcohol, reactions
     110-78-1, 1-Isocyanatopropane 495-41-0, Phenyl 1-propenyl ketone
     619-66-9, 4-Carboxybenzaldehyde 2033-24-1, Meldrum's acid 2158-14-7,
     4-Acetamidobenzenesulfonyl azide 2233-18-3, 4-Hydroxy-3,5-
     dimethylbenzaldehyde 3095-95-2, Diethylphosphonoacetic acid
                                                                     5117-12-4.
     4-Acryloylmorpholine 5535-48-8, Phenyl vinyl sulfone 6579-27-7,
     2,6-Dichloro-N-hydroxybenzenecarboximidoyl chloride
                                                          10400-19-8,
     Nicotinovl chloride 13086-84-5, Di-tert-butvl phosphite
     1-Methyl-2-imidazolecarboxaldehyde 15761-39-4, L-Boc-proline
     16004-15-2, 4-Iodobenzyl bromide 17094-34-7, Ethyl 4,4-dimethyl-3-
     oxopentanoate 18362-30-6, 2-Chloro-6-hydroxybenzaldehyde
     Methyl malonyl chloride 37830-90-3, 4,5-Dimethyl-1,3-dioxol-2-one
     40052-13-9, Mono-tert-butyl malonate
                                           54060-30-9,
     3-Ethynylaniline 79999-47-6 109384-19-2, 1-tert-Butoxycarbonyl-4-
     hydroxypiperidine
                       188525-86-2, 4-(Bromomethyl)-5-isopropyl-1,3-dioxol-2-
           194943-82-3, 3-Chloro-4-fluoropropiophenone 334872-14-9,
     one
     tert-Butyl 2-[methoxy(methyl)carbamoyl]pyrrolidine-1-carboxylate
     725234-14-0, 3-(2,6-Dichlorophenyl)-5-(3-aminophenyl)isoxazole
     867215-98-3, 2-[3-(2,6-Dichlorophenyl)isoxazol-5-yl]pyridin-4-amine
     hydrochloride
                    867216-50-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of substituted heterocyclic prodrugs for treating HCV
        infection)
RE.CNT 3
             THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

 $[\]ensuremath{\text{TI}}$ - Preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators

AN 2005:1005980 CAPLUS

- DN 143:306171
- Preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators
- Starrett, John E.; Lopez, Omar D.; Hewawasam, Pivasena; Ding, Min
- PΑ USA
- U.S. Pat. Appl. Publ., 36 pp. SO
- CODEN: USXXCO Patent
- LA English FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-------------------|----------|
| | | | | | |
| PI | US 2005203089 | A1 | 20050915 | | 20050307 |
| | | | | US 2004-553319P P | 20040315 |

- os MARPAT 143:306171
- тт Poisoning, biological

(carbon monoxide; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Antihypertensives

(elevated intracranial pressure; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Bladder, disease

(incontinence; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Spinal cord, disease

(injury; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Hypertension

(intracranial, elevated; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Intestine, disease

(irritable bowel syndrome; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Headache

(migraine; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Anti-ischemic agents Antiasthmatics

Anticonvulsants

Antimigraine agents

Ast.hma

Convulsion

Epilepsy Ischemia

Potassium channel openers

Sexual disorders

(preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Potassium channel

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Drug delivery systems

(prodrugs; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

Injury

(spinal cord; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels) Brain, disease

(stroke; preparation of phosphate prodrugs of fluorooxindoles for treatment of disorders responsive to opening of potassium channels)

IT Brain, disease
(trauma; preparation of phosphate prodrugs of fluorooxindoles for treatment
of disorders responsive to opening of potassium channels)

IT 864774-04-9P 864774-10-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators)

IT 864773-90-0P 864773-92-2P 864773-94-4P 864773-95-9P 864773-97-7P 864774-08-1P 864774-06-1P 864774-02-7P 864774-05-1P 864774-19-6P 864774-12-9P 864774-12-1P 864774-19-6P 864774-19-6P 864774-23-2P 864774-23-2P 864774-23-2P 864774-23-2P 864774-23-2P 864774-23-2P 864774-40-3P 864774-23-2P 864774-43-6P 864774-40-3P 864774-40-3P 864774-43-6P 864774-43-6P 864774-49-3P 864774-49-3P 864774-49-3P 864774-49-3P 864774-49-6P 864774-49-6P 864774-49-6P 864774-49-6P 864774-49-6P 864774-69-3P 864774-68-3P 864774-68-3P 864774-68-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators)

T10070-62-6P 134558-05-7P 214543-64-3P 607740-49-8P 607740-50-1P 864774-80-1P 864774-80-1P 864774-80-3P 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-59 864774-80-79 864775-10-59 864774-90-29 864775-10-59 864775-90-79 864775-11-1P 864775-13-3P 864775-15-95 864775-10-79 864775-11-1P 864775-22-4P 864775-30-4P 864775-30-4P 864775-30-4P 864775-30-4P 864775-30-4P 864775-51-99 86477

(intermediate; preparation of N-substituted prodrugs of fluorooxindoles as potassium channel modulators)

75-50-3, Trimethylamine, reactions 96-48-0, y-Butyrolactone 100-51-6, Benzyl alcohol, reactions 103-40-2, Succinic acid benzyl ester 105-04-4, Triethylethylenediamine 109-01-3, 1-Methylpiperazine 109-89-7, Diethylamine, reactions 110-89-4, Piperidine, reactions 110-91-8, Morpholine, reactions 876-08-4 1118-68-9, N,N-Dimethylglycine 1791-13-5, L-Aspartic acid di-tert-butyl ester hydrochloride 2462-31-9, Glycine benzyl ester hydrochloride 2462-34-2, L-Valine benzyl ester hydrochloride 2791-84-6 2886-33-1, L-Aspartic acid dibenzyl ester tosylate 4107-62-4, 3-Cyanopropionic acid methyl ester 4512-32-7 5437-45-6, Benzyl bromoacetate 5557-83-5, L-Alanine benzyl ester hydrochloride 13404-22-3 13518-40-6, L-Valine tert-butyl ester hydrochloride 13616-37-0, (1H-Tetrazol-5-yl)acetic acid ethyl 15100-75-1, L-Phenylalanine tert-butyl ester hydrochloride 16652-71-4, Proline benzyl ester hydrochloride 16652-75-8, Isoleucine benzyl ester tosylate 27019-47-2, β-Alanine benzyl ester tosylate 30379-58-9, Benzyl glycolate 32677-01-3, L-Glutamic acid di-tert-butyl ester hydrochloride 40204-26-0 56777-24-3, L-Lactic acid benzyl ester 58620-93-2, β-Alanine tert-butyl ester hydrochloride 63024-77-1, 3-(Chloromethyl)benzoyl chloride 69320-89-4, L-Isoleucine tert-butyl ester hydrochloride 91900-05-9 99529-36-9, reactions 117999-25-4 129919-88-6 187523-35-9 RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of N-substituted prodrugs of

fluorooxindoles as potassium channel modulators)

- ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN 1.6 A Prodrug Approach toward the Development of Water Soluble Fluoroguinolones and Structure-Activity Relationships of Quinoline-3-carboxylic Acids 2004:650361 CAPLUS AN DN 141:307045 A Prodrug Approach toward the Development of Water Soluble Fluoroguinolones and Structure-Activity Relationships of Ouinoline-3-carboxylic Acids AU Baker, William R.; Cai, Shaopei; Dimitroff, Martin; Fang, Liming; Huh, Kay K.; Ryckman, David R.; Shang, Xiao; Shawar, Ribhi M.; Therrien, Joseph H. Chiron Corporation, Seattle, WA, 98119, USA SO Journal of Medicinal Chemistry (2004), 47(19), 4693-4709 CODEN: JMCMAR; ISSN: 0022-2623 American Chemical Society PR DT Journal LA English os CASREACT 141:307045 ΤТ Structure-activity relationship (bactericidal; prodrug approach toward the development of water soluble fluoroguinolones and structure-activity relationships of guinoline-3-carboxylic acids) Lung, disease
- fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids) IT Antibacterial agents

Enterococcus faecalis Escherichia coli

Pseudomonas aeruginosa Staphylococcus aureus

(prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

(infection; prodrug approach toward the development of water soluble

IT Drug delivery systems

(prodrugs; prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids)

IT Infection

(pulmonary; prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of guinoline-3-carboxylic acids)

| IT | 98106-06-0P | 767306-95-6P | 767306-96-7P | 767306-97-8P | 767306-98-9P |
|----|---------------|-----------------|-----------------|----------------|--------------|
| | 767306-99-0P | 767307-00-6P | 767307-01-7P | 767307-02-8P | 767307-03-9P |
| | 767307-04-0P | 767307-05-1P | 767307-06-2P | 767307-07-3P | 767307-08-4P |
| | 767307-09-5P | 767307-10-8P | 767307-11-9P | 767307-12-0P | 767307-13-1P |
| | 767307-14-2P | 767307-15-3P | 767307-16-4P | 767307-17-5P | 767307-18-6P |
| | 767307-19-7P | 767307-20-0P | 767307-21-1P | 767307-22-2P | 767307-23-3P |
| | 767307-24-4P | 767307-25-5P | 767307-26-6P | 767307-27-7P | 767307-28-8P |
| | 767307-29-9P | 767307-30-2P | 767307-31-3P | 767307-32-4P | 767307-33-5P |
| | 767307-34-6P | 767307-35-7P | 767307-36-8P | 767307-37-9P | 767307-38-0P |
| | 767307-39-1P | 767307-40-4P | | | |
| | RL: PAC (Phar | macological act | ivity); PRP (Pr | operties); SPN | (Synthetic |
| | | | | | |

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prodrug approach toward the development of water soluble fluoroguinolones

and structure-activity relationships of quinoline-3-carboxylic acids)
T 6480-68-8DP, Quinoline-3 carboxylic acid, derivs. 102855-68-5P, PA 2789
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(prodrug approach toward the development of water soluble fluoroguinolones and structure-activity relationships of quinoline-3-carboxylic acids) 98349-24-7P 247075-55-4P 402923-54-0P 402923-70-0P, PA 2808 767306-85-4P 767306-86-5P RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids) 100-51-6, Benzenemethanol, reactions 104-94-9 109-01-3, N-Methylpiperazine 110-85-0, Piperazine, reactions 123-30-8, 4-Aminophenol 538-37-4 876-30-2 6148-64-7, Potassium ethyl malonate 6674-22-2, 1,8-Diazabicyclo[5.4.0]undec-7-ene 7786-30-3, Magnesium chloride, reactions 21655-48-1 88419-56-1, 2,4,5-Trifluorobenzovl chloride 96568-04-6 99724-19-3 103319-17-1 107610-69-5 107610-73-1 114677-00-8 116751-24-7, 2,4,5-Trifluoro-3-hydroxybenzoic acid 120737-59-9 127199-44-4 127199-45-5 128740-09-0 130657-64-6 134575-17-0 149366-79-0 159877-36-8 175463-84-0 185693-03-2 185693-04-3 198989-07-0 767307-52-8 767307-47-1 RL: RCT (Reactant); RACT (Reactant or reagent) (prodrug approach toward the development of water soluble fluoroguinolones and structure-activity relationships of guinoline-3-carboxylic acids) 112811-66-2P 108138-19-8P 112811-65-1P 136897-64-8P 402923-38-0P 767306-81-0P 767306-82-1P 767306-83-2P 767306-84-3P 767306-87-6P 767306-90-1P 767306-91-2DP, derivs. 767306-88-7P 767306-92-3DP. 767306-94-5P 767307-41-5P 767307-42-6P derivs. RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prodrug approach toward the development of water soluble fluoroguinolones and structure-activity relationships of quinoline-3-carboxylic acids) 767306-89-8DP, derivs. 767306-93-4DP, derivs. RL: SPN (Synthetic preparation); PREP (Preparation) (prodrug approach toward the development of water soluble fluoroquinolones and structure-activity relationships of quinoline-3-carboxylic acids) RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L6 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN ΤI Water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs AN 2004:591513 CAPLUS DN 141:427900 TΙ Water soluble cyclosporine monomethoxy poly(ethyleneqlycol) conjugates as potential prodrugs AII Cho, Hoon; Chung, Yongseog CS Kuhnil Pharmaceutical Co. LTD., Chungnam, 333-810, S. Korea Archives of Pharmacal Research (2004), 27(6), 662-669 SO CODEN: APHRDO: ISSN: 0253-6269 PB Pharmaceutical Society of Korea DT Journal LA English ΙT Hydrolysis (enzymic; water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs) Drug delivery systems

Stability (water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

(prodrugs; water soluble cyclosporine monomethoxy poly(ethyleneglycol)

conjugates as potential prodrugs)

Human

TT 321526-68-5P

RL: PKT (Pharmacokinetics); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

T 59865-13-3, Cyclosporin A

RL: PRP (Properties); RCT (Reactant); THU (Therapeutic use); BIOL

(Biological study); RACT (Reactant or reagent); USES (Uses)

(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

795308-42-8P 795308-43-9P 795308-44-0P 795308-45-1P 795308-46-2P

795308-47-3P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

T 22128-62-7, Chloromethyl chloroformate 31961-02-1 79934-70-6 125220-94-2 187848-53-9 519052-38-1 795308-40-6

795308-41-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

321526-67-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(water soluble cyclosporine monomethoxy poly(ethyleneglycol) conjugates as potential prodrugs)

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Terminally-branched polymeric linkers containing extension moieties for prodrug conjugates

AN 2002:107826 CAPLUS

DN 136:172758

TI Terminally-branched polymeric linkers containing extension moieties for prodrug conjugates

IN Greenwald, Richard B.; Choe, Yun H.

PA Enzon Pharmaceuticals, Inc., USA

SO U.S. Pat. Appl. Publ., 32 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-----------------------------|----------|----------------------|-------------------|----------|
| | | | | | |
| PI | US 2002015691
US 6777387 | A1
B2 | 20020207
20040817 | US 2001-823296 | 20010329 |
| | | | | US 2000-193931P P | 20000331 |

IT Drug delivery systems

(polymer-bound; terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

IT Drug delivery systems

(prodrugs; terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

IT Antitumor agents

Molecular weight distribution

(terminally-branched polymeric linkers containing extension moieties for prodrug conjugates)

IT 396133-96-3P 396133-97-4P 396133-98-5P 396133-99-6P 396134-00-2P 396134-01-3P 396134-02-4P 396134-06-8P 396134-07-9P 396134-08-0P

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396134-09-1P 396134-10-4P 396134-11-5P 396134-12-6P 396134-15-9P
    396134-16-0P 396134-17-1P 396134-18-2P
                                                 396134-19-3P
                                                               396134-20-6P
    396134-21-7P 397244-13-2P 397244-15-4P 397244-37-0P 397244-38-1P
    397244-39-2P 397244-40-5P 397245-64-6P
    RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
    (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
    (Uses)
        (terminally-branched polymeric linkers containing extension moieties for
       prodrug conjugates)
    56-84-8D, L-Aspartic acid, PEG derivative 96-53-7, 2-Thiazolidinethione
    105-36-2 147-94-4, Ara-C 524-38-9, N-Hydroxyphthalimide 929-06-6
    7689-03-4, Camptothecin 9004-74-4 13139-15-6 13726-67-5
    19172-47-5, Lawesson's reagent 32315-10-9, Triphosgene 74124-79-1,
                                   136586-99-7 153086-78-3
    N.N'-Disuccinimidyl carbonate
    187848-53-9 396134-05-7 396712-38-2
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (terminally-branched polymeric linkers containing extension moieties for
       prodrug conjugates)
                               108466-89-3P 139115-91-6P 167082-77-1P
    80681-05-6P 96989-50-3P
    188636-64-8P 259802-47-6P 261364-63-0P 341551-69-7P 379711-88-3P
    379711-89-4P
                  396133-72-5P
                                  396133-74-7P
                                                 396133-75-8P
                                                               396133-77-0P
    396133-78-1P
                  396133-79-2P
                                 396133-81-6P
                                               396133-82-7P
                                                              396133-83-8P
                  396133-86-1P
                                 396133-88-3P
                                               396133-89-4P
                                                              396133-90-7P
    396133-85-0P
                  396133-93-0P
                                 396133-95-2P
                                               396134-04-6P
                                                              396134-13-7P
    396133-92-9P
    396134-14-8P 396134-22-8P 396134-24-0P 396134-30-8P 396134-31-9P 397245-65-7P
                                               396134-25-1P 396134-28-4P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (terminally-branched polymeric linkers containing extension moieties for
       prodrug conjugates)
    367928-61-8P
    RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
    study); PREP (Preparation); USES (Uses)
        (terminally-branched polymeric linkers containing extension moieties for
       prodrug conjugates)
RE.CNT 37
             THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
    Transport of acyclovir ester prodrugs through rabbit cornea and
    SIRC-rabbit corneal epithelial cell line
    2001:800887 CAPLUS
    137:68011
    Transport of acyclovir ester prodrugs through rabbit cornea and
    SIRC-rabbit corneal epithelial cell line
    Tak, Rahul V.; Pal, Dhananjay; Gao, Hongwu; Dev, Surajit; Mitra, Ashim K.
    Division of Pharmaceutical Sciences, School of Pharmacy, University of
    Missouri-Kansas City, Kansas City, MO, 64110, USA
    Journal of Pharmaceutical Sciences (2001), 90(10), 1505-1515
    CODEN: JPMSAE; ISSN: 0022-3549
    Wiley-Liss, Inc.
    Journal
    English
    Animal cell line
        (SIRC; transport of acyclovir ester prodrugs through rabbit cornea and
       SIRC-rabbit corneal epithelial cell line)
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(cornea; transport of acyclovir ester prodrugs through rabbit cornea Hydrolysis (enzymic; transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

and SIRC-rabbit corneal epithelial cell line)

IT Drug delivery systems (prodrugs; transport of acyclovir ester prodrugs through rabbit cornea

and SIRC-rabbit corneal epithelial cell line)

IT Biological transport

(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

IT 59277-89-3, Acyclovir

RL: BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses) (transport of acyclovir ester prodrugs through rabbit cornea and

SIRC-rabbit corneal epithelial cell line)

64843-83-0P 64844-18-4P 102728-64-3P 124832-26-4P 154660-71-6P 364634-54-8P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

T 1149-26-4, N-Benzyloxycarbonyl-L-valine

RL: RCT (Reactant); RACT (Reactant or reagent)

(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

IT 124832-31-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(transport of acyclovir ester prodrugs through rabbit cornea and SIRC-rabbit corneal epithelial cell line)

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

TI Regioselective synthesis of acyclovir and its various prodrugs

AN 2001:544610 CAPLUS

DN 135:289007

TI Regioselective synthesis of acyclovir and its various prodrugs

AU Gao, Hongwu; Mitra, Ashim K.

CS Division of Pharmaceutical Science, School of Pharmacy, University of

Missouri-Kansas City, Kansas City, MO, 64100-2499, USA SO Synthetic Communications (2001), 31(9), 1399-1419

CODEN: SYNCAV; ISSN: 0039-7911

PB Marcel Dekker, Inc.

DT Journal

LA English OS CASREACT 135:289007

OS CASREACT 135 IT Deacylation

(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

IT Acvclonucleosides

Amino acids, preparation

RL: SPN (Synthetic preparation); PREP (Preparation)

(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

IT 73-40-5 108-55-4, Glutaric anhydride 123-76-2, Levulinic acid 405-39-0 646-06-0, 1,3-Dioxolane 1138-80-3 1538-75-6,

Trimethylacetic anhydride 2082-59-9, Valeric anhydride

RL: RCT (Reactant); RACT (Reactant or reagent)

(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

IT 3056-33-5P 54322-10-0P 59277-89-3P 75128-73-3P 139767-68-3P 166762-88-5P 247249-43-0P 364634-35-5P 364634-36-6P 364634-40-2P 364634-43-5P 364634-48-0P 364634-49-1P 364634-50-4P 364634-51-5P 364634-52-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

IT 84499-62-7P 91702-60-2P 110104-37-5P 110882-24-1P 247249-45-2P 355117-36-1P 364634-37-7P 364634-38-8P 364634-39-9P 364634-42-4P 364634-53-7P 364634-54-8P 364635-44-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(regioselective synthesis of acyclovir and its various prodrugs via deacylation reaction)

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Preparation of 3,4-diaryl-2-hydroxy-2,5-dihydrofurans as prodrugs to cyclooxygenase-2 (cox-2) inhibitors and as non-steroidal anti-inflammatory agents
- AN 1997:425272 CAPLUS
- DN 127:34112
- TI Preparation of 3,4-diary1-2-hydroxy-2,5-dihydrofurans as prodrugs to cyclooxygenase-2 (cox-2) inhibitors and as non-steroidal anti-inflammatory agents
- IN Black, Cameron; Leger, Serge; Prasit, Petpiboon; Wang, Zhaoyin; Hamel, Pierre; Han, Yongxin; Hughes, Gregory
- PA Merck Frosst Canada Inc., Can.
- SO PCT Int. Appl., 213 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 9

| FAN. | PA: | TENT 1 | | | | | | | | | | | | | | | | ATE | |
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| ΡI | WO | 97164 | | | | | | | | | | | | | | | | | |
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UG, | | | | | | | | | | | |
| | | KW: | | | | | | PT, | | | | | | | | | | | |
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| | | | | , | 0117 | / | | | | | US | 199 | 5-8 | 0741 | Þ | 1 | P 1 | 9951 | 030 |
| | US 5698584 | | | | | | | | | | | | | | | | | 9960 | |
| | US | 56985 | 584 | | | A | | 1997 | 1216 | | US | 199 | 6-7 | 381 | 43 | | 1 | 9961 | 025 |
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| | | 9672 | | | | | | 19970 | | | AU | 199 | 6-7 | 2736 | 6 | | 1 | 9961 | 029 |
| | AU | 71190 |)2 | | | B2 | | 1999: | 1021 | | | 100 | - 0 | 074 | | | | 0051 | 020 |
| | | | | | | | | | | | | | | | | | | 9951 | |
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| | .TD | 11500 | 1748 | | | Т2 | | 1999 | 1119 | | | | | | 43 | | | 9961 | |
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| | 0.2 | 0001 | | | | | | | | | US | 199 | 5-8 | 0741 | Þ | 1 | P 1 | 9951 | 030 |
| | | | | | | | | | | | | | | | | | | 9960 | |
| | | | | | | | | | | | WO | 199 | 6-C | A71 | 7 | 7 | <i>i</i> 1 | 9961 | 029 |
| | EP | 90426 | 59 | | | A1 | | 19990 | 0331 | | EΡ | 199 | 6-9 | 3426 | 67 | | 1 | 9961 | 029 |
| | EP | 90426 | 59 | | | В1 | | 20020 | 0123 | | | | | | | | | | |
| | | R: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | | | | | | | | | | |
| | | | | | | | | | | | US | 199 | 5-8 | 0741 | P | 1 | P 1 | 9951 | 030 |

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W 19961029
19961029
P 19951030
A 19960213
W 19961029 |
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P 19951030
A 19960213 |
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WO 1996-CA717 | P 19951030
W 19961029 |
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1994:630494 | ON: | | | |
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
| PI | WO 9413635
W: AU, BB, BG
MW, NO, NZ
RW: AT, BE, CH | A1
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, CA, CZ,
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FI, HU, JP, KR, KZ, I
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MC, NL, PT, SE, |
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A 19930319
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19931213
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R: CH, DE, FR | Al
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19981014
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A 19931104
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A 19921211
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A 19931104
W 19931213 |
| FAN | 1994:680652
PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
| PI | MN, MW, NO
RW: AT, BE, CH | A1
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CZ, FI, HU, JP, KR, I
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GB, GR, IE, IT, LU, I
GN, ML, MR, NE, SN, 3 | 19940310
KZ, LK, LV, MG,
US, UZ
MC, NL, PT, SE,
ID, TG |
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CA 2157107
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C | 19950425
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20040706 | US 1993-30924
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CA 1994-2157107 | |
| | AU 9461788 | | 19940926 | US 1993-30924
AU 1994-61788
US 1993-30924
WO 1994-CA135 | A 19930312
19940310
A 19930312
W 19940310 |
| FAN | 1995:468615
PATENT NO. | KIND | DATE | APPLICATION NO. | |

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9500 |
501 | | |
A2 | - | 1995 | 0105 | |
WO | 199 | 4-0 | CA31 | 8 | | |
19 | 940 | 609 |
|-----|--|------------|------------|------------------|---------------------|------------|------------|------------|------------|----------|-----|-----|------------|--------------------|------------|---------|--------|------------|------------|
| WO | 9500 | 501 | | | A3 | | 1995 | 0413 | | | | | | | | | | | |
| | W: | AU,
LK, | BB,
LV, | BG,
MD,
UZ | BR,
MG, | BY,
MN, | CA,
MW, | CN,
NO, | CZ,
NZ, | FI
PL | , G | Ε, | HU,
RU, | JP,
SD, | KE,
SI, | SK | , | KR,
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US 1993-82196 | ъ2 | 19991118
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19940110 |
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| | FI 2001002510 | A | 20011219 | US 2000-552974
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| | FI 114913 | B1 | 20011219 | F1 2001-2510 | | 20011219 |
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| F3.11 | 1006 101353 | | | WO 1994-CA318 | M | 19940609 |
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| PI | WO | 9611 | 676 | | | | | 1996 | 0425 | | | 1995- | | | | | | |
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6733 | 66 | | | A1 | | 1995 | 0927 | | EP | 1994- | 9017 | 16 | | 1 | 9931 | 213 |
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WO 1993-CA535 | | 19931104
19931213 |
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| | US 5840746 | A | 19981124 | US 1997-926291 | | 19970905 |
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| | | | | US 1993-152620 | A2 | 19931112 |
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| | JP 2000038375 | A2 | 20000208 | JP 1999-174678 | | 19990621 |
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| | | 22 | | US 1993-82196 | А | 19930624 |
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| | VARRAM 100 01110 | | | 002200 | -10 | |

OS MARPAT 127:34112

IT Anti-inflammatory agents

(preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

IT Drug delivery systems

(prodrugs; preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cycloxygenase-2 inhibitors)

Cyclooxygenase-z limibicors,

IT 39391-18-9, Cyclooxygenase

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)

(2; preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective cycloxygenase-2 inhibitors)

| IT | 189954-13-0P | 189954-14-1P | 189954-15-2P | 189954-16-3P | 189954-17-4P | |
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| | 189954-28-7P | 189954-29-8P | 189954-30-1P | 189954-32-3P | 189954-33-4P | |
| | 189954-34-5P | 189954-35-6P | 189954-36-7P | 189954-37-8P | 189954-38-9P | |
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189955-72-4P 189957-46-8P 189957-47-9P 190966-37-1P 190966-38-2P
190966-39-3P 190966-40-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
   (preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory
  diarylhydroxydihydrofuranones and selective cyclooxygenase-2
   inhibitors)
59-31-4, 2-Hydroxyguinoline 59-50-7, 4-Chloro-3-methylphenol 62-53-3,
Benzenamine, reactions 67-63-0, Isopropyl alcohol, reactions
                                                               75-30-9.
2-Iodopropane 75-36-5, Acetyl chloride 78-77-3, 1-Bromo-2-
               78-85-3, Methacrolein 79-03-8, Propionyl chloride
methylpropane
79-08-3, Bromoacetic acid 79-11-8, Chloroacetic acid, reactions
79-30-1. Isobutyryl chloride 96-32-2, Methyl bromoacetate 98-17-9,
3-Trifluoromethylphenol 98-88-4, Benzoyl chloride 100-61-8,
N-Methylaniline, reactions 100-68-5, Thioanisole 103-04-8,
(Phenylthio)acetic acid 104-92-7, 4-Bromoanisole 104-95-0,
4-Bromothioanisole 105-36-2, Ethyl bromoacetate 108-24-7, Acetic
anhydride 108-95-2, Phenol, reactions 108-96-3, 4-Pyridone 109-00-2,
3-Hydroxypyridine 109-89-7, Diethylamine, reactions 109-92-2
122-88-3, 4-Chlorophenoxyacetic acid 123-31-9, 1,4-Benzenediol,
reactions 124-63-0, Methanesulfonyl chloride 137-43-9, Cyclopentyl
bromide 142-08-5, 2-Hydroxypyridine 150-76-5, 4-Methoxyphenol
331-25-9, 3-Fluorophenylacetic acid 331-41-9, 4-Chloro-3-
fluorophenoxyacetic acid 353-83-3, 1,1,1-Trifluoro-2-iodoethane
367-27-1, 2,4-Difluorophenol 370-58-1, 3,4-Difluorophenoxyacetic acid
371-41-5, 4-Fluorophenol 372-20-3, 3-Fluorophenol 400-38-4, Isopropyl
trifluoroacetate 404-98-8, 3-Fluorophenoxyacetic acid 405-50-5,
4-Fluorophenylacetic acid 405-79-8, 4-Fluorophenoxyacetic acid
421-50-1, 1,1,1-Trifluoroacetone 491-30-5, 1-Hydroxyisoquinoline
491-36-1, 4-Hydroxyquinazoline 513-48-4, 2-Iodobutane 584-02-1,
3-Pentanol 588-20-5, 4-Chloro-3-methylphenoxyacetic acid 588-22-7,
3,4-Dichlorophenoxyacetic acid 598-21-0, Bromoacetyl bromide 626-55-1,
3-Bromopyridine 645-45-4, 3-Phenylpropionyl chloride 765-42-4,
α-Methylcyclopropanemethanol 772-70-3, 3-(4-Fluorophenyl)propionyl
chloride 917-54-4, Methyllithium 930-30-3, 2-Cyclopenten-1-one
941-55-9, Tosyl azide 1071-46-1, Ethyl hydrogen malonate
1121-25-1, 3-Hydroxy-2-methylpyridine 1121-78-4, 5-Hydroxy-2-
methylpyridine 1547-29-1, 3-Fluoro-2-hydroxypyridine 1603-40-3, 2-Amino-3-methylpyridine 1603-41-4, 2-Amino-5-picoline 1826-67-1,
Vinylmagnesium bromide 1878-91-7, 4-Bromophenoxyacetic acid 2439-04-5, 5-Hydroxyisoquinoline 2613-23-2, 3-Chloro-4-fluorophenol 2713-33-9,
3,4-Difluorophenol 3279-76-3, 2-Hydroxy-6-methylpyridine 3446-89-7,
4-Methylthiobenzaldehyde 3926-62-3, Sodium chloroacetate 4214-79-3,
5-Chloro-2-pyridinol 4524-93-0, Cyclopentanecarbonyl chloride
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4568-71-2, 3-Benzyl-5-(2-hydroxyethyl)-4-methylthiazolium chloride 5154-00-7, 2-Hydroxy-6-aminopyridine 5238-27-7, 2-Methylvaleryl chloride

189954-51-6P 189954-52-7P

189954-56-1P 189954-57-2P

189954-53-8P

189954-58-3P

189954-49-2P 189954-50-5P

189954-54-9P 189954-55-0P

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6628-77-9, 5-Amino-2-methoxypyridine 7051-34-5, Cyclopropylmethyl
          7651-81-2, 3-Hydroxyisoquinoline 7651-82-3,
bromide
6-Hydroxyisoquinoline 7677-24-9, Trimethylsilyl cyanide
                                                           13466-35-8,
3-Chloro-2-pyridinol 13466-38-1, 5-Bromo-2-hydroxypyridine 13466-41-6,
2-Hydroxy-4-methylpyridine 13599-84-3, 6-Hydroxybenzothiazole
13831-31-7, Acetoxyacetyl chloride 15501-33-4, Neopentyl iodide
16879-02-0, 6-Chloro-2-hydroxypyridine 16940-81-1, Hydrogen
hexafluorophosphate 19301-35-0, 5-Hydroxybenzothiophene 22280-60-0,
3-Nitro-6-chloro-2-picoline 22627-70-9, 3-Ethoxy-2-cyclopenten-1-one
22748-16-9 23056-33-9, 2-Chloro-4-methyl-5-nitropyridine 30806-83-8,
Ethyl 4-isocyanatobenzoate 34036-07-2, 3,4-Difluorobenzaldehyde
38353-09-2, 2-Hydroxypyrimidine hydrochloride 40771-41-3,
5-Chloro-2-mercaptopyridine 41288-96-4, 2-Chloro-5-hydroxypyridine
50413-24-6, 2-Bromo-1-(4-methylsulfonylphenyl)ethanone 51173-05-8,
5-Fluoro-2-hydroxypyridine 52129-99-4 66613-51-2, 1-Phenoxybut-3-en-2-
one 69566-95-6, 1-(4-Methylsulfonylphenyl)propan-1-one 71995-54-5,
Cyclohexyloxyacetic acid 77227-78-2, 2-Fluoro-4-trifluoromethylphenol
81037-06-1 81286-85-3 99389-26-1, 3,5-Difluorothiophenol
120681-01-8, (1-Indanyloxy)acetic acid 136564-78-8, 2-Methyl-4,4,4-
trifluorobutyryl chloride 156545-77-2, 3,5-Difluorophenylboronic acid
189956-35-2 189956-37-4 189956-38-5 189956-41-0, Cyclobutoxyacetic
     189956-42-1, (2-Indanyloxy)acetic acid
                                                190966-65-5
acid
RL: RCT (Reactant); RACT (Reactant or reagent)
   (preparation of diarylhydroxydihydrofurans as prodrugs for
   antiinflammatory diarylhydroxydihydrofuranones and selective
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methylpyridine 10481-34-2P, 2-Bromo-2-cyclopenten-1-one 20872-28-0P,
Ethyl 4-hydroxyphenoxyacetate 33445-07-7P, Isopropoxyacetic acid
51173-03-6P 51834-97-0P, 5-Hydroxy-2-methoxypyridine
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58243-27-9P, 5-Acetoxy-2-methoxypyridine 59209-37-9P
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3,3-Dimethylcyclopentanol 62489-81-0P, Ethyl 3-chloro-4-
hydroxyphenoxyacetate 71867-98-6P 88324-55-4P 98026-98-3P.
3-Diazo-2, 4-(3H, 5H)-furandione 128586-37-8P 178402-36-3P
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                                                           189956-43-2P,
Ethvl 3-chloro-4-methoxyphenoxyacetate 190966-41-7P 190966-42-8P
190966-43-9P 190966-44-0P 190966-45-1P 190966-46-2P 190966-47-3P 190966-48-4P 190966-49-5P, 3,4-Difluorophenoxymethyl vinyl ketone
190966-50-8P, (3,5-Difluorophenylthio)acetic acid 190966-51-9P
190966-52-0P 190966-54-2P 190966-55-3P 190966-56-4P 190966-57-5P
190966-58-6P
               190966-59-7P
                             190966-60-0P, Lithium 3-
pyridyltrimethylborate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory
```

5418-51-9, 2-Hydroxy-5-nitropyridine 5419-55-6, Triisopropyl borate 5437-33-2, 3,5-Dichloro-2-pyridone 5470-18-8, 2-Chloro-3-nitropyridine 5685-05-2, 2-Mercaptothiazole 5728-07-4, 3-Hydroxy-1,2,5-thiadiazole

diarylhydroxydihydrofuranones and selective cyclooxygenase-2 inhibitors)

- 190966-03-1P 190966-04-2P 190966-05-3P 190966-06-4P 190966-08-6P $190966 - 10 - 0P \qquad 190966 - 11 - 1P \qquad 190966 - 12 - 2P \qquad 190966 - 13 - 3P \qquad 190966 - 14 - 4P$ 190966-15-5P 190966-16-6P 190966-18-8P 190966-19-9P 190966-21-3P 190966-23-5P 190966-25-7P 190966-26-8P 190966-28-0P 190966-30-4P 190966-31-5P 190966-32-6P 190966-33-7P 190966-34-8P 190966-35-9P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prodrug; preparation of diarylhydroxydihydrofurans as prodrugs for antiinflammatory diarylhydroxydihydrofuranones and selective
 - cyclooxygenase-2 inhibitors)
- L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
- ΤI Process for preparing dioxolenone derivatives used for making prodrug esters and intermediates
- AN 1997:204430 CAPLUS
- DN 126:238373
- ΤI Process for preparing dioxolenone derivatives used for making prodrug esters and intermediates
- IN Cheng, Peter T. W.; Sun, Chong-oing; Poss, Michael A.
- PA Bristol-Myers Squibb Company, USA
- SO U.S., 23 pp.
- CODEN: USXXAM Patent
- T.A English
- FAN. CNT 1

| | PATENT NO. | KIND | DATE | API | PLICATION NO. | DATE |
|----|------------|------|----------|-----|---------------|----------|
| | | | | | | |
| PI | US 5610314 | A | 19970311 | US | 1995-415799 | 19950403 |
| | | | | US | 1995-415799 | 19950403 |
| | | | | | | |

- os CASREACT 126:238373; MARPAT 126:238373
- Drug delivery systems
 - (prodrugs; preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)
- 9077-14-9D, Squalene synthetase, inhibitors
 - RL: BSU (Biological study, unclassified); BIOL (Biological study) (preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)
- 1344-67-8, Copper chloride 5503-41-3, Rhodium diacetate 7440-50-8, Copper, uses
 - RL: CAT (Catalyst use); USES (Uses)
 - (preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)
- 75-44-5, Carbonic dichloride 79-37-8, Oxalvl chloride 101-02-0, Triphenvl phosphite 109-02-4, N-Methylmorpholine 110-86-1, Pyridine, reactions 121-44-8, reactions 329-15-7, p-(Trifluoromethyl)benzoyl 530-62-1, 1,1'-Carbonyldiimidazole chloride 503-38-8, Diphosgene 558-13-4, Carbon tetrabromide 603-35-0, Triphenylphosphine, reactions 998-40-3, Tributylphosphine 3249-68-1, Ethyl butyrylacetate Ethyl propionylacetate 6148-64-7, Ethyl potassium malonate 7087-68-5, Diisopropylethylamine 7152-15-0, Ethyl isobutyrylacetate 7719-09-7, Thionyl chloride 7719-12-2, Phosphorus trichloride 7726-95-6, Bromine, reactions 7737-62-4, Ethyl 3-oxoheptanoate 7789-60-8, Phosphorus tribromide 16940-66-2, Sodium borohydride 17476-04-9, Lithium tri(tert-butoxy)aluminum hydride 32315-10-9, 33725-74-5, Tetrabutylammonium borohydride 55107-14-7, Triphosgene Methyl 4,4-dimethyl-3-oxopentanoate 188526-11-6 RL: RCT (Reactant); RACT (Reactant or reagent)
 - (preparation of dioxolenone derivs. as prodrugs for squalene synthetase inhibitors)

```
IT 2158-14-7P, 4-Acetamidobenzenesulfonyl azide
                                                 4949-45-5P, Benzyl
                     5006-35-9P 66696-91-1P 77902-92-2P 86005-12-1P
    3-oxopentanoate
    86978-73-6P 94250-56-3P 106263-53-0P 188525-84-0P 188525-85-1P
    188525-86-2P 188525-88-4P 188525-89-5P 188525-90-8P 188525-92-0P
    188525-93-1P 188525-95-3P 188525-96-4P 188525-97-5P
                                                              188525-99-7P
    188526-00-3P 188526-01-4P 188526-03-6P 188526-04-7P 188526-05-8P
    188526-07-0P 188526-08-1P 188526-09-2P 188526-10-5P 188526-12-7P
    188526-13-8P 188526-14-9P 188526-15-0P 188526-16-1P 188526-17-2P
    188526-18-3P 188526-19-4P 188526-20-7P 188526-21-8P 188526-22-9P
    188526-23-0P 188526-24-1P 188526-25-2P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation of dioxolenone derivs. as prodrugs for squalene synthetase
       inhibitors)
ΤТ
    188525-87-3P
                   188525-91-9P 188525-94-2P 188525-98-6P 188526-02-5P
    188526-06-9P
    RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
    study); PREP (Preparation); USES (Uses)
        (preparation of dioxolenone derivs. as prodrugs for squalene synthetase
       inhibitors)
=> dhis
L7
           21 DHIS
=> d his
     (FILE 'HOME' ENTERED AT 14:24:44 ON 27 NOV 2006)
    FILE 'REGISTRY' ENTERED AT 14:25:01 ON 27 NOV 2006
L1
               STRUCTURE UPLOADED
L2
             2 SEARCH L1 SSS SAM
L3
           987 SEARCH L1 SSS FULL
               SAVE TEMP L3 HEMIMALONT/A
    FILE 'CAPLUS' ENTERED AT 14:31:09 ON 27 NOV 2006
L4
          2980 L3
L5
         16059 PRODRUG
L6
             9 L4 (L)L5
            21 DHTS
=> dsave temp 14 refsfnd/a
SAVED ANSWER SET NAME MAY NOT BE USED IN OUERIES 'REFSFND/A'
Saved answer sets must be activated before they are used in search
profiles. This must be done in the same file in which they were
created. Use the FILE command to change files if necessary, then
enter "ACTIVATE" followed by the saved name (including /A) at an arrow
prompt (=>). Use the L# assigned to the answer set in your search
profile.
=> save temp 14 refsfnd/a
ANSWER SET L4 HAS BEEN SAVED AS 'REFSFND/A'
=> file rea
COST IN U.S. DOLLARS
                                               SINCE FILE
                                                               TOTAL
                                                    ENTRY
                                                             SESSION
FULL ESTIMATED COST
                                                    39.29
                                                              212.30
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```

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STRUCTURE FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4 DICTIONARY FILE UPDATES: 26 NOV 2006 HIGHEST RN 913953-45-4

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http://www.cas.org/ONLINE/UG/regprops.html

IIn l

4-5 4-9

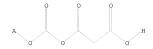
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 carbonyloxy subset.str

chain nodes:
1 2 3 4 5 6 7 9 10 11 12 13
chain bonds:
1-2 1-7 2-3 2-6 3-4 4-5 4-9 5-10 7-11 7-12 11-13
exact/norm bonds:
1-2 1-7 2-6 7-11 7-12 11-13
exact bonds:
2-3 3-4 5-10
normalized bonds:

Hydrogen count: 3:>= minimum 2 5:>= minimum 1 Match level: 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS

L8 STRUCTURE UPLOADED

=> d 18 L8 HAS NO ANSWERS L8 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 18 subset = 13 sss sam

SAMPLE SUBSET SEARCH INITIATED 14:49:16 FILE 'REGISTRY' SAMPLE SUBSET SCREEN SEARCH COMPLETED -1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS SEARCH TIME: 00.00.02

0 ANSWERS

0

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE** PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 1 TO 80 0 TO PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET):

L9 0 SEA SUB=L3 SSS SAM L8

=> search 18 subset = 13 sss full

FULL SUBSET SEARCH INITIATED 14:49:36 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED -10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS SEARCH TIME: 00.00.01

0 ANSWERS

0 SEA SUB=L3 SSS FUL L8 L10

=> d cost

| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| | ENTRY | SESSION |
| CONNECT CHARGES | 1.52 | 16.27 |
| NETWORK CHARGES | 0.24 | 2.52 |
| SEARCH CHARGES | 39.40 | 209.80 |
| DISPLAY CHARGES | 0.00 | 24.87 |
| | | |
| FULL ESTIMATED COST | 41.16 | 253.46 |

IN FILE 'REGISTRY' AT 14:49:43 ON 27 NOV 2006

=> logoff hold

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 41.60 253.90

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 14:50:17 ON 27 NOV 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD:

* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * SESSION RESUMED IN FILE 'REGISTRY' AT 14:52:01 ON 27 NOV 2006 FILE 'REGISTRY' ENTERED AT 14:52:01 ON 27 NOV 2006

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COST IN U.S. DOLLARS SINCE FILE ENTRY SESSION FULL ESTIMATED COST 41.60

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 not oxycarbonyloxy subset.str

TOTAL

253.90



chain nodes :

1 2 3 4 5 6 7 9 10 11 12

chain bonds : 1-2 1-7 2-3 2-6 3-4 4-5 4-9 5-10 7-11 7-12

exact/norm bonds :

1-2 1-7 2-6 7-11 7-12

exact bonds : 2-3 3-4 5-10

normalized bonds :

4-5 4-9

Hydrogen count : 3:>= minimum 2 5:>= minimum 1 Match level : 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS

STRUCTURE UPLOADED

=> d 111 L11 HAS NO ANSWERS

Structure attributes must be viewed using STN Express query preparation.

SAMPLE SUBSET SEARCH INITIATED 14:52:57 FILE 'REGISTRY'
SAMPLE SUBSET SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS

SEARCH TIME: 00.00.01

0 ANSWERS

PROJECTIONS (WITHIN SPECIFIED SUBSET): ONLINE **COMPLETE**
PROJECTED ITERATIONS (WITHIN SPECIFIED SUBSET): 3 TO 163
PROJECTED ANSWERS (WITHIN SPECIFIED SUBSET): 0 TO 0

L12 0 SEA SUB=L3 SSS SAM L11

=> search 111 subset = 13 sss full
FULL SUBSET SEARCH INITIATED 14:53:05 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 54 TO ITERATE

100.0% PROCESSED 54 ITERATIONS 1 ANSWERS

SEARCH TIME: 00.00.01

L13 1 SEA SUB=L3 SSS FUL L11

=> d scan

L13 1 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Acetic acid, anhydride with malonic acid (5CI) MF C5 H6 O5

O || AcO-C-CH₂-CO₂H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY SESSION 81.88 294.18

TOTAL

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FILE LAST UPDATED: 26 Nov 2006 (20061126/ED)

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=> 11

REG1stRY INITIATED

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2 ANSWERS

SAMPLE SEARCH INITIATED 14:53:28 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 24708 TO ITERATE

8.1% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 484755 TO 503565

PROJECTED ANSWERS: 196 TO

L14 2 SEA SSS SAM L1

L15 2 L14

=> 113

L16 3 L13

=> d 116 1-3 ti fbib abs

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

B-Lactones and B-lactono acids. VI. Mechanism of formation of

B-lactono acids ΔN

1951:3420 CAPLUS

DN 45:3420

OREF 45:556a-q

 β -Lactones and β -lactono acids. VI. Mechanism of formation of TT B-lactono acids

Vul'fson, N. S. AII

SO Zhurnal Obshchei Khimii (1950), 20, 425-34

CODEN: ZOKHA4; ISSN: 0044-460X

DT Journal

LA Unavailable

For diagram(s), see printed CA Issue.

cf. C.A. 44, 6392a. It has been shown that only the neutral malonic acetic anhydride (I) is capable of reacting with carbonyl derivs.; the mixed acidic anhydride does not react. H2SO4, which catalyzes the anhydride formation, does not participate in the reaction with CO derivs. The 1st step of the reaction of I with Me2CO is the formation of the mixed anhydride of AcOH and Me2C(OH)CH(CO2H)2, which undergoes an intramol. reaction yielding the lactono-acid and Ac20. Crude I and Me2CO, allowed to stand overnight, readily yield 48.6-55.5% isopropylidenemalono-βlactone, RR'C.CH(CO2H).CO.O(R,R' = Me) m. 96-7° (from Me2CO or

C6H6), also obtained in 48.6% yield from 6.4 g. CH2(CO2Ag)2 in 10 g. dry Me2CO with 10 g. AcCl (added dropwise), followed by filtration and standing overnight; BzCl instead AcCl gives the same product, in addition to some BzOH (amts. unstated). The crude I from 10 g. CH2(CO2H)2 and 10 q. BzH, let stand overnight, gave 27.9% benzylidenemalono-β-lactone, m. 145-6° (decomposition; from Me2CO-C6H6), also obtained (1 q.) by addition of 6.4 q. CH2(CO2)2Aq to 10 q. BzH, followed by 5 q. AcCl. m-O2NC6H4CHO in the 1st reaction gave 0.4 q. m-NO2 analog, m. 158.5-59.0° (from MeOH), while cyclohexanone (10 g.) gave 1.5 g. cyclohexylidenemalono-B-lactone, m. 84-5°. The lactono acids were isolated in the form of the resp. Ag salts (undescribed and used only for analyses). When Me2CH:C(CO2H)2 was treated with a trace of H2SO4 in Ac2O, no lactonization took place even in 3 days, nor did its di-Aq salt yield any lactone with Accl in Me2CO; the benzylidene analog behaved similarly. Addition of 3 drops concentrated H2SO4 to 6.2 g. Me2C:CHCO2H in 25 ml. Ac20, followed by 2 hrs. at 60° and standing for 2 days gave, after distillation of the Ac20 in vacuo and washing the residue with Na2CO3 solution (in Et2O), 4 g. isopropylideneacetic anhydride, bl3 140-2°, b2 117-18°, which yields the anilide, m. 127.5-8.0° (from EtOH); 0.5 g. original acid is reclaimed. Me2C:CHCO2Aq with AcCl in Et2O gave only the free acid, m. 67.5-9.0°. Addition of 10 q. AcCl to 6.4 q. CH2(CO2Aq)2 in 15 ml. drv Me2CO, followed by filtration and separation of the filtrate into parts (a) and (b) gave: from part (a), allowed to stand 2 hrs. after filtration, an unstated amount of CH2(CO2H)2, and from part (b), allowed to stand 1 day, an unstated amount of isopropylidenemalono- β -lactone. A similar reaction in which the 24-hr. filtrate was treated with dry MeOH gave MeOAc, CH2(CO2Me)2, AcOH, and a small amount of the above lactone. PhOH instead of MeOH gave di-Ph malonate, m. 48.5-9.5°. Distillation of the 24-hr. filtrate yielded a small amount of Ac20 and the above lactone.

- L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- Research in β -lactones and β -lactono acids. V. Mixed anhydrides TI
- of malonic and acetic acids
- AN 1950:33330 CAPLUS 44:33330 DN
- OREF 44:6392a
- ΤI Research in β -lactones and β -lactono acids. V. Mixed anhydrides
- of malonic and acetic acids
- AU Vul'fson, N. S.
- SO Zhurnal Obshchei Khimii (1949), 19(No. 10), a369-81
- CODEN: ZOKHA4; ISSN: 0044-460X
- DT Journal LA English
- AB See C.A. 44, 1901f.
- L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
- ΤI β-Lactones and β-lactono acids. V. Mixed anhydrides of malonic and acetic acids
- ΔN 1950:9932 CAPLUS
- DN 44:9932
- OREF 44:1901e-i,1902a-c
- β -Lactones and β -lactono acids. V. Mixed anhydrides of malonic and acetic acids
- Vul'fson, N. S. ΑU
- CS J. Gen. Chem.
 - Zhurnal Obshchei Khimii (1949), 19, 1904-16
 - CODEN: ZOKHA4; ISSN: 0044-460X
- Journal
- LA Unavailable
- CASREACT 44:9932 OS
- AB cf. C.A. 38, 3255.2. CH2(CO2H)2 with Ac2O yields 2 mixed acetic-malonic anhydrides in a reaction catalyzed by H2SO4. Shaking 10 g. powdered

CH2(CO2H)2, 40 g. Ac2O, and 3 drops H2SO4 until solution occurs and letting stand overnight, followed by concentration in vacuo at $40-50^\circ$, gave a sirup which on treatment with 15 ml. absolute BtOH, followed by cooling and extraction with Et2O, gave 1.5 g. MeOAc and 60% CH2(CO2Me)2 (I), bl3 74-79, nD2O 1.4140, while an extract with NaZCO3 gave 24.7% HO2CCH2CO2Me (II), b5 145-6% (decomposition). If the reaction mixture

above after vacuum concentration is extracted with $\ensuremath{\operatorname{Et2O}}$ and the extract is treated with

MeOH, there is formed 2.6 g. MeOAc, 51% I, and 22% II, as wall as a trace of CH2(CO2H)2. Similar results are obtained if H2SO4 is omitted and the mixture is allowed to stand 24 hrs. before concentration and reaction with

MeOH.

(CH2CO2Aq)2 (12.8 q.) with 6.3 q. AcCl in Et2O gave upon filtration a yellow sirup, which gave 93.5% I with MeOH; 8.4 g. Ag salt and 3.1 g. AcCl gave 84.7% II and 13.5% MeOAc. The mixed anhydride from 10 g. CH2(CO2H)2 and 40 g. Ac20 gave with 20 g. BuOH, 2.7 g. CH2(CO2H)2, 39% HO2CCH2CO2Bu (undistillable without decomposition), and 14.5% di-Bu ester, as well as 3.5 g. BuOAc; similar reaction with 12 g. Me3COH gave 35.7% HO2CCH2CO2CMe3 (isolated as the Ag salt), and 14.5% di-tert-Bu ester, b. 220-5° (with some decomposition), as well as 1 g. tert-BuOAc; 2-octanol (25 g.) gave 2.2 g. CH2(CO2H)2, 0.5 g. 2-octv1 acetate, 14.5% 2-octv1 H malonate, and 15.9% corresponding neutral ester, b2 169-70°, nD20 1.4367. Dodecvl alc. (35 g.) gave a small amount of dodecvl acetate, b15 149-52°, 16.5% didodecyl malonate, m. 33-4°, and 23% dodecyl H malonate, m. 42-3° (from iso-Am20); 20 g. PhOH gave a little PhOAc, 13.2% di-Ph malonate, m. 49.5-51.0°, and 17.3% Ph H malonate, m. 65-6° (from iso-Am2O), while 10 g. PhNH2 gave 71% malonanilide, m. 223-4.5° (from MeOH); similar addition of 15 g. PhNH2 in 25 ml. Et20 gave 12 g. of the anilide while the Et20 mother liquor yielded about 3 q. AcNHPh and the alkaline extract gave 4.5 q. malonanilic

acid,

m. 131-2° (from AcOH), which on heating to the m.p. gave AcNHPh. Addition of 2 drops H2SO4 to 5 g. II and 20 ml. Ac20, letting stand 24 hrs., and evaporation in vacuo at 50° gave the mixed anhydride of acetic acid and II, b7 70-1°, b5 64-5°, n202 1.4106, which (3 g.) treated with 5 ml. MeOH gave 1, while 3 g. PhNH2 gave 0.4 g. AcNHPh and 1 g. II; treatment of the mixed anhydride with p-O2NC6H3CH2Br in hot aqueous alc. NaOH for 1 hr. gave p-nitrobenzyl acetate and malonate, m. 77-9° and 82.5-84.0°, resp. Allowing 4 g. HO2CCH2CO2Bu and 16 g. Ac20 to stand 24 hrs. gave 55% mixed anhydride of acetic acid and Bu H malonate, b4 116-18°, which (1 g.) with 2 g. PhNH2 gave AcNHPh. Similarly HO2CCH2CO2DP gave the corresponding mixed anhydride with Ac20, m. 55.5-56.0° (from iso-Am20), giving HO2C-CH2CO2Ph and AcNHPh with PhNH2.

-2.25

-2.25

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FULL ESTIMATED COST 8.68 303.76

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 NEWS 6 SEP 11 CA/CAplus enhanced with more pre-1907 records
 NEWS 7 SEP 21
                 CA/CAplus fields enhanced with simultaneous left and right
                  truncation
 NEWS 8
         SEP 25
                 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
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                 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
 NEWS 10
         SEP 25
                 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
         SEP 28
 NEWS 11
                 CEABA-VTB classification code fields reloaded with new
                  classification scheme
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NEWS 14 OCT 23
                 E-mail format enhanced
                 Option to turn off MARPAT highlighting enhancements available
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         NOV 10 CA/CAplus F-Term thesaurus enhanced
 NEWS 20
         NOV 10 STN Express with Discover! free maintenance release Version
                  8.01c now available
NEWS 21
         NOV 13
                 CA/CAplus pre-1967 chemical substance index entries enhanced
                  with preparation role
 NEWS 22
         NOV 20
                 CAS Registry Number crossover limit increased to 300,000 in
                  additional databases
 NEWS 23
         NOV 20
                 CA/CAplus to MARPAT accession number crossover limit increased
                  to 50,000
 NEWS 24 NOV 20 CA/CAplus patent kind codes will be updated
 NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS
              STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN
              Welcome Banner and News Items
 NEWS IPC8
               For general information regarding STN implementation of IPC 8
NEWS X25
              X.25 communication option no longer available
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FILE 'HOME' ENTERED AT 06:14:28 ON 28 NOV 2006

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COST IN U.S. DOLLARS FULL ESTIMATED COST SINCE FILE ENTRY

ENTRY SESSION 0.21 0.21

TOTAL

FILE 'REGISTRY' ENTERED AT 06:14:44 ON 28 NOV 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8 DICTIONARY FILE UPDATES: 27 NOV 2006 HIGHEST RN 914071-04-8

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http://www.cas.org/ONLINE/UG/regprops.html

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Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10531382\10531382 carbonyloxyalkyl esters.str

chain nodes:
1 2 3 4 5 6 7 9 10 11 12 13

chain bonds: 1-7 1-13 2-6 2-3 2-12 3-4 4-5 4-9 5-10 7-11 12-13

exact/norm bonds: 1-7 1-13 2-6 2-12 7-11 12-13

exact bonds : 2-3 3-4 5-10

2-3 3-4 5-10 normalized bonds :

4-5 4-9

Hydrogen count :
3:>= minimum 2 5:>= minimum 1
Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR

Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED 1540 ITERATIONS SEARCH TIME: 00.00.01 2 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE**
PROJECTED ITERATIONS: 2846 TO 33154
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

 $\label{eq:local_continuous} \mbox{IN} \quad \mbox{Propanedioic acid, } \mbox{mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-chlorobenzoy$

dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester (9CI)

MF C23 H23 C1 N2 O8

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 2 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[1-[[(2-cyclohexylethoxy)carbonyl]oxy]ethyl] ester (9CI)

SINCE FILE

ENTRY

3.96

TOTAL

4.17

MF C14 H22 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 06:20:14 ON 28 NOV 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 28 Nov 2006 VOL 145 ISS 23 FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

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=> 12 L3 2 L2

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L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN TI Process for preparation of malonic acid monoesters

AN 2004:354912 CAPLUS

DN 140:374903

Process for preparation of malonic acid monoesters

IN Sawabe, Takehiko; Aihara, Kazuhiro; Atsumi, Kunio; Ajito, Keiichi

PA Meiji Seika Kaisha, Ltd., Japan

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent Τ. Δ Japanese

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CNT 2 | | | |
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| PAIN. | PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
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| ΡI | WO 2004035540
W: AE, AG, AL, | A1 20040429 | WO 2003-JP13319
BA, BB, BG, BR, BY, | 20031017 |
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UZ, VC, VN, YU, ZA, | |
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| | | | LU, MC, NL, PT, RO, | |
| | BF, BJ, CF, | CG, CI, CM, GA, | GN, GQ, GW, ML, MR,
JP 2002-304630 | NE, SN, TD, TG
A 20021018 |
| | | | JP 2003-50293 | A 20030227 |
| | AU 2003301426 | A1 20040504 | | 20031017 |
| | | | JP 2002-304630 | A 20021018 |
| | | | JP 2003-50293
WO 2003-JP13319 | A 20030227
W 20031017 |
| | EP 1561748 | A1 20050810 | | 20031017 |
| | R: AT, BE, CH, | DE, DK, ES, FR, | GB, GR, IT, LI, LU, | NL, SE, MC, PT, |
| | IE, SI, LT, | LV, FI, RO, MK, | CY, AL, TR, BG, CZ, | |
| | | | JP 2002-304630
JP 2003-50293 | A 20021018
A 20030227 |
| | | | WO 2003-JP13319 | W 20030227 |
| | US 2005272950 | A1 20051208 | US 2005-531382 | 20050415 |
| | | | JP 2002-304630 | A 20021018 |
| | | | JP 2003-50293
WO 2003-JP13319 | A 20030227
W 20031017 |
| PATE | NT FAMILY INFORMATIO | N: | 110 2003 0213313 | H 20031017 |
| FAN | 2004:354911 | | | |
| | PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
| PI | WO 2004035539 | A1 20040429 | | 20031017 |
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| | TN, TR, TT, | TZ, UA, UG, US, | UZ, VC, VN, YU, ZA, | ZM, ZW |
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| | | | BE, BG, CH, CY, CZ,
LU, MC, NL, PT, RO, | |
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| | , -,, | | JP 2002-304630 | A 20021018 |
| | AU 2003301425 | A1 20040504 | | 20031017 |
| | | | JP 2002-304630
WO 2003-JP13318 | A 20021018
W 20031017 |
| | | | 2003 0113310 | . 20031017 |

os MARPAT 140:374903

This invention pertains to a method for producing malonic acid monoesters with general formula of HO2CCH2CO2R [where R = a group which is easily hydrolyzed in vivo] or salts, which comprises reacting malonic acid with a halide in the presence of a base. For example, acetoxymethyl bromide was reacted with malonic acid in THF in the presence of N,N-

diisopropylethylamine to give malonic acid mono-acetoxymethyl ester. This invention provides a method to make malonic acid monoesters with low cost. THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE.CNT 2 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ΤI Preparation of derivatives of known pesticides, with enhanced properties

AN 2001:581649 CAPLUS

- DN 135:163628
- Preparation of derivatives of known pesticides, with enhanced properties TI

APPLICATION NO.

DATE

IN Mulvihill, Mark Joseph; Shaber, Steven Howard; Kelly, Martha Jean

KIND DATE

- PA Rohm and Haas Company, USA
- SO PCT Int. Appl., 1646 pp.
- CODEN: PIXXD2 DT Patent

| LA | English | |
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| FAN. | CNT 4 | |
| | PATENT NO. | |

| | | | | | | A2 20010809 | | | | WO 2001-US651 | | | | | | | | |
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| PI | WO | 2001 | 0563 | 58 | | A2 | | 2001 | 0809 | | WO 2 | 001- | US65 | 1 | | 2 | 0010 | 126 |
| | | W: | ΑE, | AG, | AL, | AM, | ΑT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BY, | BZ, | CA, | CH, | CN, |
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| | | | | | | | | | | | US 2 | 000- | 1788 | 78P | | P 2 | 0000 | 128 |
| | | | | | | | | | | | US 2 | 000- | 4938 | 65 | | A 2 | 0000 | 128 |
| | US | 6376 | 548 | | | В1 | | 2002 | 0423 | | US 2 | 000- | 4938 | 65 | | 2 | 0000 | 128 |
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| | | | | | | | | | | | US 2 | 000- | 1788 | 78P | | P 2 | 0000 | 128 |
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| PI | W: AE, AG, AL, | | | A2 20010802 | | | WO 2001-US653 | | | | | 20010126 | | | | | | |
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| JP | 2004 | 5010 | 67 | | T2 | | 2004 | 0115 | | | 001- | | | | | 0010 | |
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AB A very large number of derivs. of known pesticides were prepared The moieties substituted to the known pesticides enhance or favorably modify the activity and properties of the parent pesticide.

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FULL SEARCH INITIATED 06:22:49 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -30214 TO ITERATE

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37 ANSWERS

L4 37 SEA SSS FUL L1

=> d scan

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[1-[(ethoxycarbonyl)oxy]ethyl] ester (9CI)
- MF C8 H12 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):37

- 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN T.4
- IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester (9CI)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[1-[[(cyclohexyloxy)carbonyl]oxy]ethyl] ester (9CI)
 MF C12 H18 07

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 2-Propenoic acid, 2-methyl-, (2-methylphenyl)methyl ester, polymer with $\alpha-\text{hydro}-\omega-\text{[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(1,3-dioxo-1)]}$
- 1,3-propanediyl)oxy-2-butene-1,4-diyl] (9CI)
- MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2)x
- CI PMS

CM 1

CM 2

IN Propanedioic acid, mono[1-[[(2-cyclohexylethoxy)carbonyl]oxy]ethyl] ester (9CI)

MF C14 H22 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Poly[oxy(methyl-1,2-ethanediyl)], α -(carboxyacetyl)- ω -[(2-

methyl-1-oxo-2-propenyl)oxy]-, polymer with ethenylbenzene (9CI)

MF (C8 H8 . (C3 H6 O)n C7 H8 O5)x CI PMS

JI 1110

CM

$$\begin{array}{c|c} O & CH_2 \\ HO_2C-CH_2-C & O-(C_3H_6) \\ \hline \end{array} \\ \begin{array}{c|c} O & CH_2 \\ \parallel & \parallel \\ n & O-C-C-Me \end{array}$$

CM

H2C== CH- Ph

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[[[(3-methylbutoxy)carbonyl]oxy]methyl] ester (9CI)

MF C10 H16 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Poly(oxy-1,2-ethanediyl), α -(carboxyacetyl)- ω -(formyloxy)-(9CI)

MF (C2 H4 O)n C4 H4 O5

CI PMS

$$HO_2C-CH_2-C$$
 $O-CH_2-CH_2$ n $O-CHO$

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

Description of the property of the property of the property of the polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate) and methyl 2-methyl-2-propenoate (921)

MF (C10 H14 O4 . C9 H12 O6 . C5 H8 O2)x

I PMS

CM 1

CM 2

CM 3

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester, sodium salt (9CI)

MF C23 H23 C1 N2 O8 . Na

Na

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Hexonic acid, 5-O-(2-O-acetylhexopyranosyl)-, 18

IN Hexonic acid, 5-0-(2-0-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyloctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)

MF C45 H70 O20

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI)
- MF C6 H8 O6

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Galactitol, 1,2:5,6-dianhydro-, bis(hydrogen propanedioate) (9CI) MF C12 H14 O10

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[1-[[(1-methylethoxy)carbonyl]oxy]ethyl] ester

(9CI)

C9 H14 O7 MF

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN L4
- Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, IN polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)
- (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x MF
 - PMS

CI

CM 1

CM 2

CM 3

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[1-[(phenoxycarbonyl)oxy]ethyl] ester (9CI)

MF C12 H12 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[2,3-bis[[(9Z)-1-oxo-9-octadecenyl]oxy]propyl]
- ester (9CI)
- MF C42 H74 O8

Double bond geometry as shown.

PAGE 1-B

PAGE 1-A

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[1-[[(2-methylpropoxy)carbonyl]oxy]ethyl] ester (9CI) MF C10 H16 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

IN Propanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester (9CI)

MF C8 H10 O6

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[(3-methyl-1-oxobutoxy)methyl] ester (9CI)

MF C9 H14 O6

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN 2-Propenoic acid, 2-methyl-, tridecyl ester, polymer with dodecyl 2-propenoate and 2-hydroxyethyl 2-propenoate, 2-[(1-oxo-2propenyl)oxylethyl propanedioate (9CI)

MF (C17 H32 O2 . C15 H28 O2 . C5 H8 O3)x . x C8 H10 O6

CM 1

CM

CM 3

CM 4

CM 5

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on SIN IN Propanedioic acid, mono[2-[[(3-methyl-1,4-dioxido-2quinoxalinyl)carbonylloxylethyl] ester (9CI)
- MF C15 H14 N2 08
- CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[2-[[1-oxo-11-(2,4,6-triiodophenoxy)undecy1]oxy]-1[[[1-oxo-11-(2,4,6-triiodophenoxy)undecy1]oxy]methyl]ethyl] ester (9CI)
- MF C40 H52 I6 O10

PAGE 1-B

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[2-[[(3-methyl-1,4-dioxido-2quinoxalinyl)carbonyl]oxy]ethyl] ester, sodium salt (9CI)

ME C15 H14 N2 08 . Na

Na

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[[(2,4-dimethylbenzoyl)oxy]methyl] ester (9CI)

MF C13 H14 O6

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3,2.0]hept-2-yl)carbonyl]oxy]methyl] ester, (2S-cis)- (9CI)

MF C12 H15 N O9 S

CI COM

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[[(cyclohexyloxy)carbonyl]oxy]methyl] ester (9CI)
- MF C11 H16 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Poly[oxy(1,3-dioxo-1,3-propanediy1)oxy-2-butene-1,4-diy1], α-hydro-ω-[(2-methy1-1-oxo-2-propeny1)oxy]- (9CI)
- MF (C7 H8 O4)n C4 H6 O2
- CI PMS, COM

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[1-[[(2,2-dimethylpropoxy)carbonyl]oxy]ethyl] ester (9CI)
- MF C11 H18 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Poly[oxy(methyl-1,2-ethanediyl)], α -(carboxyacetyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
- MF (C3 H6 O)n C7 H8 O5
- CI IDS, PMS, COM

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[[(1-methylethoxy)carbonyl]oxy]methyl] ester (9CI)
 MF C8 H12 O7

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN 2-Butenedioic acid (2E)-, bis(2-ethylhexyl) ester, polymer with ethenylbenzene, 2,5-furandione and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl hydrogen propanedioate (9CI)
- MF (C20 H36 O4 . C9 H12 O6 . C8 H8 . C4 H2 O3)x
- CI PMS

CM 1

CM

Double bond geometry as shown.

CM 3

CM ·

H2C= CH- Ph

L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Propanedioic acid, mono[(2-ethyl-1-oxobutoxy)methyl] ester (9CI)
MF C10 H16 06

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[[[2-benzoyl-1-(4-chlorobenzoyl)-2-(1,1-dimethylethyl)hydrazino]carbonyl]oxy]methyl] ester (9CI)

MF C23 H23 Cl N2 O8

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Hexonic acid, 5-0-(2-0-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)
- MF C45 H68 O21

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[(2,2-dimethyl-1-oxopropoxy)methyl] ester (9CI)
- MF C9 H14 O6

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L4 37 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
- IN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (25-cis)- (9C1)
- MF C12 H15 N O9 S . Na

Absolute stereochemistry.

Na

ALL ANSWERS HAVE BEEN SCANNED

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COST IN U.S. DOLLARS | SINCE FILE
ENTRY | TOTAL |
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| FULL ESTIMATED COST | 167.82 | 192.85 |
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FILE COVERS 1907 - 28 Nov 2006 VOL 145 ISS 23 FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

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=> d 15 10-22 ti

L5 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

- TI Resist developer containing basic organic compound and formic acid ester and rapid developing method using it
- L5 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Resin composition for electrophotographic toner
- L5 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Ultraviolet ray-curable adhesive compositions for metal hubs
- L5 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Reactive emulsifiers for emulsion polymerization of vinyl compounds
- L5 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Lipid Derivatives of Sarcolysine, Methotrexate, and Rubomycin
- L5 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Electrophotographic light-sensitive material
- L5 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI High-contrast silver halide photographic material
- ii migh-contrast silver halide photographic material
- L5 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Orally effective acid prodrugs of the β-lactamase inhibitor sulbactam
- orderly effective deta produtings of the practamase immutator surpactan
- L5 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its metabolites in blood plasma and liver
- L5 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Bis-esters of dicarboxylic acids with amoxicillin and certain hydroxymethylpenicillanate 1,1-dioxides
- L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI 1,1-Alkanediol dicarboxylate-linked antibacterial agents
- L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI 1,1-Alkanediol dicarboxylate linked antibacterial agents
- L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Substituted alkyl esters of quinoxaline-di-N-oxide-2-carboxylic acid

=> d 15 17-22 ti fbib abs it

- L5 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Orally effective acid prodrugs of the β -lactamase inhibitor subbactam
- AN 1990:35500 CAPLUS
- DN 112:35500
- TI Orally effective acid prodrugs of the β-lactamase inhibitor sulbactam
- AU English, Arthur R.; Girard, Dennis; Jasys, V. John; Martingano, Robert J.; Kellogg, Michael S.
- CS Pfizer Cent. Res., Groton, CT, 06340, USA
- SO Journal of Medicinal Chemistry (1990), 33(1), 344-7 CODEN: JMCMAR; ISSN: 0022-2623
- DT Journal
- LA English
- OS CASREACT 112:35500

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O<sub>2</sub> Me Me CO<sub>2</sub>CH<sub>2</sub>O<sub>2</sub>CXCO<sub>2</sub>H I
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Double-ester prodrugs I [X = CH2, CMe2, (CH2)3, CH2)4] of sulbactam, a β-lactamase inhibitor with limited oral bioavailability were prepared and were effective oral-delivery vehicles in rats. I have several potential advantages over their nonionizable lipophilic counterparts, including water solubility, crystallinity, choice of salts for dosage forms, and formation of innocuous byproducts on hydrolysis. Drug bioavailability (of sulbactam from carboxyalkanoyloxymethyl esters) 68373-14-8, Sulbactam RL: PROC (Process) (bioavailability of, from carboxyalkanovloxymethyl esters) 76247-39-7, Iodomethyl penicillanate 1,1-dioxide RL: RCT (Reactant); RACT (Reactant or reagent) (esterification by, of monobenzyl alkane dicarboxylates) 18997-19-8, Chloromethyl pivalate RL: RCT (Reactant); RACT (Reactant or reagent) (esterification by, of sulbactam) 69388-84-7, Sulbactam sodium salt RL: RCT (Reactant); RACT (Reactant or reagent) (esterification of) 108-55-4, Glutaric anhydride 124-04-9, Adipic acid, reactions RL: RCT (Reactant); RACT (Reactant or reagent) (partial esterification of) 15014-25-2, Dibenzyl malonate RL: RCT (Reactant); RACT (Reactant or reagent) (partial hydrolysis, or methylation of) 87343-33-7P 87353-01-3P 87353-21-7P 123963-81-5P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and bioavailability from, of sulbactam) 40542-90-3P, Monobenzyl adipate 54322-10-0P 86507-74-6P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and conversion of, to tetrabutylammonium salt) 87343-26-8P 87343-27-9P 87343-28-0P 87343-31-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and debenzylation of) 57772-82-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and partial ester hydrolysis of) 87353-15-9P 87353-23-9P 123963-80-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with iodomethyl penicillanate dioxide) 40204-26-0P, Monobenzyl malonate 69388-79-0P 87353-37-5P 87353-39-7P 87353-40-0P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 41087-88-1

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with iodomethylpenicillinate dioxide)

- T. 5 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its TT metabolites in blood plasma and liver

AN 1988:179457 CAPLUS

- DN 108:179457
- RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its TI metabolites in blood plasma and liver
- ΑU Szokan, G.; Elekes, I.; Taborhegyi, E.; Csanadi, G.; Bencze, J.
- CS Inst. Org. Chem., Eotvos Univ., Budapest, H-1088, Hung.
- SO Chromatographia (1987), 24, 839-41
- CODEN: CHRGB7; ISSN: 0009-5893
- DT Journal
- LA English
- AB A method involving precolumn derivatization and HPLC assay is described for measuring submicrogram quantities of 1,2-5,6-dianhydro-3,4disuccinylgalactitol [1,2-5,6-dianhydro-3,4-bis(carboxypropionyl)galactito

1], an effective cytostatic drug, and its metabolites in blood plasma and liver homogenate. The substance and its metabolites were derivatized with Na pentamethylene-dithiocarbamate to form different bis(dithiocarbamoyl) esters, which can be detected by UV absorbance at 254 and 280 nm. The directly derivatized products were then extracted into CHC13, and after sample preparation resolved by reversed-phase HPLC (RP-HPLC) on SAS-Hypersil column.

Blood analysis

Liver, composition (dianhydrodisuccinylgalactitol and its derivs. determination in, by reversed-phase HPLC)

Chromatography, column and liquid

(high-performance, reversed-phase, of dianhydrodisuccinvlgalactitol and its derivs., in blood plasma and liver)

23261-20-3 57230-48-5 66913-57-3 114066-54-5 114066-55-6 114179-42-9

RL: ANT (Analyte); ANST (Analytical study)

(determination of, by reversed-phase HPLC as bis(dithiocarbamoyl) ester) 66913-57-3D, metabolites

RL: ANT (Analyte); ANST (Analytical study)

(determination of, in blood plasma and liver by reversed-phase HPLC)

- L5 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
- Bis-esters of dicarboxylic acids with amoxicillin and certain ΤI
 - hydroxymethylpenicillanate 1,1-dioxides
- AN 1984:591548 CAPLUS
- DN 101:191548
- ΤI Bis-esters of dicarboxylic acids with amoxicillin and certain
- hydroxymethylpenicillanate 1,1-dioxides IN Jasys, Vytautas J.
- Pfizer Inc., USA PA
- U.S., 12 pp. SO
- CODEN: USXXAM
- DT Patent
- LA English

| FAN. | CNT | 1 | | | | | | | | | | | | | | |
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| | PA: | TENT : | NO. | | | KIN | D | DATE | | API | PLICAT | CION NO | ٥. | | DATE | |
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| PI | US | 4462 | 934 | | | A | | 1984 | 0731 | US | 1983- | -48110 | 3 | | 19830331 | |
| | DK | 8401 | 140 | | | A | | 1984 | 1001 | DK | 1984- | -1140 | | | 19840228 | |
| | | | | | | | | | | US | 1983- | 48110 | 3 | Α | 19830331 | |
| | EP | 1213 | 83 | | | A1 | | 1984 | 1010 | EP | 1984- | -301973 | 3 | | 19840323 | |
| | EP | 1213 | | | | B1 | | 1986 | | | | | | | | |
| | | R: | AT, | BE, | CH, | DE, | FR, | GB, | IT, | LI, L | U, NL, | SE | | | | |
| | | | | | | | | | | | | | | | | |

US 1983-481108 A 19830331 AT 19633 19840323 E 19860515 AT 1984-301973 US 1983-481108 A 19830331

| | | | | EP | 1984-301973 | Α | 19840323 |
|----|----------|----|----------|----|-------------|---|----------|
| CA | 1199909 | A1 | 19860128 | CA | 1984-450835 | | 19840329 |
| | | | | US | 1983-481108 | Α | 19830331 |
| IL | 71391 | A1 | 19871030 | IL | 1984-71391 | | 19840329 |
| | | | | US | 1983-481108 | Α | 19830331 |
| PL | 144812 | B1 | 19880730 | PL | 1984-246933 | | 19840329 |
| | | | | US | 1983-481108 | A | 19830331 |
| FI | 8401287 | A | 19841001 | FI | 1984-1287 | | 19840330 |
| | | | | US | 1983-481108 | Α | 19830331 |
| AU | 8426265 | A1 | 19841004 | AU | 1984-26265 | | 19840330 |
| AU | 545941 | B2 | 19850808 | | | | |
| | | | | US | 1983-481108 | Α | 19830331 |
| HU | 33486 | 0 | 19841128 | HU | 1984-1303 | | 19840330 |
| HU | 191650 | В | 19870330 | | | | |
| | | | | US | 1983-481108 | Α | 19830331 |
| ES | 531194 | A1 | 19850801 | ES | 1984-531194 | | 19840330 |
| | | | | US | 1983-481108 | Α | 19830331 |
| JP | 59216891 | A2 | 19841206 | JP | 1984-65046 | | 19840331 |
| JP | 01007077 | B4 | 19890207 | | | | |
| | | | | US | 1983-481108 | Α | 19830331 |

AB The esters I (R = H, CH2NH2, R1 = H; R = H, R1 = CH2OH; X = 1,4-cyclohexanediyl, C1-6 alkylene), useful as bactericides (no data), were prepared Thus, I [R = R1 = H, X = (CH2)4] was prepared by treating 1,1-dioxopenicillanoyloxymethyl adipate (II) with protected amoxicillin Bu4N salt and deblocking. II was obtained by treating Na penicillanate 1,1-dioxide with C1CH2O2C(CH2)4CO2CH2Ph.

ΤТ Antibiotics

GΙ

Bactericides, Disinfectants, and Antiseptics Bactericides, Disinfectants, and Antiseptics

(dioxopenicillnoyloxymethylamoxicillin cyclohexanedicarboxylate alkanedioates)

62787-85-3 RL: RCT (Reactant); RACT (Reactant or reagent)

(debenzylation of)

13149-00-3

RL: RCT (Reactant); RACT (Reactant or reagent) (esterification of, with benzyl alc.)

15014-25-2

RL: RCT (Reactant); RACT (Reactant or reagent) (methylation of)

57772-82-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

```
(Reactant or reagent)
(preparation and debenzylation of)
92665-30-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and deblocking of)
87353-32-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and epimerization of)
84458-33-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RAC (Reactant or reagent) (preparation and esterification of)
IT 8735-26-2P 87353-33-IP 87366-97-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hydrogenation of) (T 87343-25-7P 87343-26-0P 87343-27-9P 87343-28-0P 87343-31-5P

8734-38-2P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hydrogenolysis of)

76247-40-0P 87375-29-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and iodination of)

87353-27-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and oxidation of)

(preparation and oxidation of) 76909-19-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with acetoacetate)

(preparation and reaction of, with acetoacetate) 87343-33-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with amoxicillin derivative)

87343-37-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with bromochloromethane)

87353-35-3P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with chloroformate) 87375-22-2P

II 87375-22-2P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with chloroiodomethane)

IT 87343-34-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, with dioxopenicillanate)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with dioxopenicillanoyloxymethyl adipate)

IT 87343-24-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

```
(preparation and reaction of, with iodomethylpenicillanate dioxide)
    87343-30-4P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation and reaction of, with penicillanate dioxide)
    87375-17-5P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
       (preparation and reaction of, with tetrabutylammonium hydroxide)
    86507-74-6P 87343-21-3P 87343-22-4P 87343-32-6P 87343-39-3P
    87353-01-3P 87353-21-7P
                               87353-37-5P 87353-38-6P
                                                           87353-39-7P
    87353-40-0P 87375-30-2P 87392-98-1P 92665-31-1P
    RL: SPN (Synthetic preparation); PREP (Preparation)
       (preparation of)
ΤТ
    593-71-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with aminomethylpenicillanate dioxide derivative)
    105-45-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with amoxicillin tetrabutylammonium salt)
    69388-84-7
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with benzyl chloromethyl adipate)
    35564-99-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with benzyloxycarbonylaminomethylacetate)
    87353-23-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with bromochloromethane)
    67799-92-2
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with dibromopenicillanate)
    74-97-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with tetrabutylammonium benzyl cyclohexanedicarboxylate)
    76247-39-7
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with tetrabutylammonium benzyl succinate)
    103-40-2 26787-78-0 68373-14-8 87343-35-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with tetrabutylammonium hydroxide)
    ANSWER 20 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN
TI
    1,1-Alkanediol dicarboxylate-linked antibacterial agents
AN
    1984:591536 CAPLUS
DN
    101:191536
ΤТ
    1,1-Alkanediol dicarboxylate-linked antibacterial agents
IN
    Jasvs, Vytautas J.; Kellogg, Michael S.
    Pfizer Inc., USA
PA
    U.S., 39 pp. Cont.-in-part of U.S. Ser. No. 334,022, abandoned.
SO
    CODEN: USXXAM
DT
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    PATENT NO
                       KIND
                               DATE
                                         APPLICATION NO. DATE
PT
    US 4457924
                        A
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                                          US 1982-429915 19820930
US 1981-334022 A2 19811222
    EP 83484
               A1 19830713
B1 19860219
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        R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
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US 1981-334022 A 19811222

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| AT 18051 | E | 19860315 | AT | 1982-306683 | | 19821214 |
| | | | US | 1981-334022 | A | 19811222 |
| | | | US | 1982-429915 | A | 19820930 |
| | | | EP | 1982-306683 | A | 19821214 |
| RO 84911 | P | 19840817 | RO | 1982-109396 | | 19821220 |
| | | | US | 1981-334022 | A | 19811222 |
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| RO 87709 | В3 | 19851031 | RO | 1982-113244 | | 19821220 |
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| | | | US | 1982-429915 | A | 19820930 |
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| AU 8291721 | A1 | 19830630 | AU | 1982-91721 | | 19821221 |
| AU 537214 | B2 | 19840614 | | | | |
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| | | | US | 1982-429915 | A | 19820930 |
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| ES 518425 | A1 | 19840201 | ES | 1982-518425 | | 19821221 |
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| PL 140291 | B1 | 19870430 | PL | 1982-248637 | | 19821221 |
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| PL 145927 | B1 | 19881130 | PL | 1982-256903 | | 19821221 |
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| JP 58116486 | A2 | 19830711 | JP | 1982-225773 | | 19821222 |
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| CS 236867 | B2 | 19850515 | CS | 1982-9559 | | 19821222 |
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A | 19811222
19820930 |
| 0.7 | | | | | | EP | 1982-306683 | A | 19821214 |

AB RCO2CHR1O2CXO2C(CHR1O2C)nR2 [X = C1-12 alkylene, alkylidene (un) substituted by Ph or CO2H, cycloalkylene, phenylene, naphthalenediyl, furandiyl, thiophendiyl, pyridinediyl, pyrazinediyl; R = R3-R5; R1 = H, alkyl; R2 = R3-R5, H, alkyl, CH2Ph, CHR1Cl, CHR1I, NBu4; R6 = NH2, 2,6-(MeO)2C6H3CONH, PhOCH2CONH, 4-R9C6H4CHR10CONH; R7 = H, CH2OH, CH2NH2, CHMeNH2; R8 = H, C1, OAc; R9 = H, OH, acyloxy, alkoxycarbonyloxy, (un) substituted BzO; R10 = H, (un) protected NH2, N3] were prepared Thus, I was prepared from Na penicillanate 1,1-dioxide, ampicillin, K benzyl trans-1,4-cyclohexanedicarboxylate, C1CH2I, and C1CH2Br in 10 steps.

87353-35-3 RL: RCT (Reactant); RACT (Reactant or reagent)

(benzyloxycarbonylation of) 26787-78-0 35334-12-4 68373-14-8 76953-81-6 87343-35-9 87343-46-2

RL: PROC (Process)

(conversion of, to tetrabutylammonium salt)

13149-00-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of) 593-71-5

RL: RCT (Reactant); RACT (Reactant or reagent) (esterification of penicillanic acids by)

15014-25-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(methylation of) 79634-06-3

RL: RCT (Reactant); RACT (Reactant or reagent) (neutralization and oxidation of)

19851-61-7 62787-85-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(partial hydrolysis of)

79634-01-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and chlorination of)

79703-02-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and conversion of, to potassium salt)

87353-42-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and conversion of, to sodium salt)

```
(preparation and conversion of, to tetrabutylammonium salt)
87352-86-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and deblocking of)
87353-30-8P
            87353-32-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and epimerization of)
79886-08-1P 87375-30-2P 92521-56-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and esterification of)
87375-17-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and esterification of, with methylene chloride)
87352-99-6P 87353-00-2P 87353-26-2P 87366-97-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrogenation of)
79634-03-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrogenolysis and oxidation of)
87343-24-6P 87343-25-7P 87343-26-8P 87343-38-2P
                                                       87343-43-9P
87343-50-8P
             87343-59-7P
                           87343-62-2P
                                         87352-82-7P
                                                       87352-84-9P
87353-24-0P
             87353-25-1P
                           87353-33-1P
                                        92521-52-3P
                                                      92521-55-6P
92521-59-0P
            92521-62-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrogenolysis of)
             87343-56-4P
87343-54-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrolysis and hydrogenolysis of)
           76247-40-0P
                         76350-34-0P
                                        76946-48-0P
                                                      87352-89-4P
87352-91-8P
             87352-93-0P
                           87353-05-7P
                                         87353-09-1P
                                                       87353-11-5P
             87353-17-1P
                                        92521-54-5P
87353-12-6P
                           87392-99-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrolysis of)
87375-29-9P
             92521-57-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and iodination of)
87343-44-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and neutralization of)
             86287-78-7P
                           86287-79-8P
                                        87353-27-3P
79634-02-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and oxidation of)
57772-82-4P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

87353-01-3P

(Reactant or reagent)

76909-19-8P

(preparation and partial hydrolysis of)

92521-60-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

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(Reactant or reagent)
   (preparation and reaction of, with acetoacetate)
87353-04-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with ampicillin derivative)
                          87343-51-9P 87353-37-5P
87343-32-6P
             87343-39-3P
                                                      87353-39-7P
87353-41-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with ampicillin iodomethyl ester)
87343-37-1P 87343-41-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with bromochloromethane)
84256-84-8P 84458-33-3P
                           87343-34-8P
                                         87343-42-8P
                                                        87343-48-4P
87343-49-5P 87343-53-1P
                          87353-03-5P
                                         87353-07-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with chloroiodomethane)
92521-58-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with dioxopenicillanate)
76909-27-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with dioxopenicillanovloxomethyl glutarate)
87353-38-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with iodomethyl azidophenylacetamidopenicillan
   ate)
87353-20-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with iodomethyl bromopenicillanate)
92521-61-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with iodomethyl dioxopenicillanate)
87353-08-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with iodomethyl dioxopenicillanoyloxymethyl
   dimethylmalonate)
87393-00-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with iodoxopenicillanoyloxymethyl
   alkanedicarboxylates)
92521-51-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and reaction of, with iso-Bu chloroformate)
76247-39-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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(preparation and reaction of, with monobenzyl succinate)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(Reactant or reagent)

87343-61-1P

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(preparation and reaction of, with penicillanate derivs.)
     76350-40-8P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation and reaction of, with penicillanovloxymethyl glutarate)
    87343-61-1P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
    (Reactant or reagent)
        (preparation and reaction of, with penicillin derivative)
    87353-10-4P 87353-16-0P 92521-53-4P
                                             92521-63-6P
    RL: SPN (Synthetic preparation); PREP (Preparation)
       (preparation of)
IT
    69-53-4 18520-63-3
                           75694-28-9 79634-05-2 79886-07-0
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    86256-86-2
                 86507-74-6
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    87353-36-4 87353-40-0 87392-98-1
                                        87419-73-6
                                                     87419-75-8
    87503-35-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with acetoacetate)
    74-97-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with alkanedicarboxylic acids)
    105-45-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with ampicillin)
    69388-84-7
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with benzyl chloromethyl adipate)
               132-98-9
    132-92-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with benzyl chloromethyl dimethylmalonate)
    67852-88-4
                 87353-23-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with bromochloromethane)
    87353-15-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with chloroiodomethane)
    4027-64-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with chloromethyl chlorosulfonate)
    67799-92-2
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with dibromopenicillanate)
    87343-30-4
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with dioxopenicillanate)
    35564-99-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with formaldehyde)
    40542-90-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with iodomethyl azidophenylacetamidopenicillanate)
    84256-87-1
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with iodomethyl dioxopenicillanoyloxymethyl malonate)
    86507-74-6
    RL: RCT (Reactant); RACT (Reactant or reagent)
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(reaction of, with iodomethyl penicillanate derivative) 103-40-2 RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with iodomethylpenicillanate dioxide) 87343-58-6 ΙT

RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with penicillin B)

ANSWER 21 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN L5 TI 1,1-Alkanediol dicarboxylate linked antibacterial agents

AN 1984:6194 CAPLUS

DN 100:6194

ΤI 1,1-Alkanediol dicarboxylate linked antibacterial agents IN Jasys, Vytautas John; Kellogg, Michael Stephen

PA Pfizer Inc., USA

SO Eur. Pat. Appl., 124 pp.

CODEN: EPXXDW

DT Patent English

LA

| FAN. | CNT 2 | | | | | |
|------|----------------------|--------|-----------|-----------------|----|----------|
| | PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
| | | | | | - | |
| PI | EP 83484 | A1 | 19830713 | EP 1982-306683 | | 19821214 |
| | EP 83484 | B1 | 19860219 | | | |
| | R: AT, BE, CH, | DE, FR | , GB, IT, | LI, LU, NL, SE | | |
| | | | | US 1981-334022 | A | 19811222 |
| | | | | US 1982-429915 | A | 19820930 |
| | US 4457924 | A | 19840703 | US 1982-429915 | | 19820930 |
| | | | | US 1981-334022 | A2 | 19811222 |
| | AT 18051 | E | 19860315 | AT 1982-306683 | | 19821214 |
| | | | | US 1981-334022 | Α | 19811222 |
| | | | | US 1982-429915 | A | 19820930 |
| | | | | EP 1982-306683 | Α | 19821214 |
| PATE | NT FAMILY INFORMATIC | N: | | | | |
| FAN | 1984:591536 | | | | | |
| | DATENT NO | KIND | DATE | ADDITOATION NO | | DATE |

| F'AN | | :5915 | | | KINI | D | DATE | | API | PLICAT | ION NO | ٥. | | DATE | |
|------|-------|-------|-------|-------|------|-----|------|------|--------|--------|--------|----|----|----------|--|
| | | | | - | | - | | | | | | | - | | |
| PI | US 4 | 45792 | 4 | | A | | 1984 | 0703 | US | 1982- | 42991 | 5 | | 19820930 | |
| | | | | | | | | | US | 1981- | 334022 | 2 | A2 | 19811222 | |
| | EP 8 | 3484 | | | A1 | | 1983 | 0713 | EP | 1982- | 306683 | 3 | | 19821214 | |
| | EP 8: | 3484 | | | B1 | | 1986 | 0219 | | | | | | | |
| | 1 | R: A | T, BE | , CH, | DE, | FR, | GB, | IT, | LI, LU | U, NL, | SE | | | | |
| | | | | | | | | | US | 1981- | 334022 | 2 | Α | 19811222 | |
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| | RO 8 | 4911 | | | P | | 1984 | 0817 | RO | 1982- | 109396 | 5 | | 19821220 | |
| | | | | | | | | | US | 1981- | 33402 | 2 | A | 19811222 | |
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| | RO 8 | 7709 | | | В3 | | 1985 | 1031 | RO | 1982- | 11324 | 4 | | 19821220 | |
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| | DK 8: | 20565 | 4 | | A | | 1983 | 0623 | DK | 1982- | 5654 | | | 19821221 | |
| | | | | | | | | | US | 1981- | 334022 | 2 | Α | 19811222 | |
| | | | | | | | | | US | 1982- | 42991 | 5 | A | 19820930 | |
| | FI 8: | 20440 | 9 | | A | | 1983 | 0623 | FI | 1982- | 4409 | | | 19821221 | |
| | FI 8 | 0039 | | | В | | 1989 | 1229 | | | | | | | |
| | FI 8 | 0039 | | | С | | 1990 | 0410 | | | | | | | |
| | | | | | | | | | | | | | | | |

US 1981-334022 A 19811222 US 1982-429915 A 19820930

| NO 8204305 | A | 19830623 | NO 1982-4305 19821221 |
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| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| AU 8291721 | A1 | 19830630 | AU 1982-91721 19821221 |
| AU 537214 | B2 | 19840614 | |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
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| | | | US 1981-334022 A 19811222 |
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| DD 207379 | A5 | 19840229 | DD 1982-246325 19821221 |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| IL 67530 | A1 | 19860228 | IL 1982-67530 19821221 |
| | | | US 1981-334022 A 19811222 |
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| CA 1213582 | A1 | 19861104 | CA 1982-418192 19821221 |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
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| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| PL 141306 | B1 | 19870731 | PL 1982-239651 19821221 |
| | | | US 1981-334022 A 19811222 |
| SU 1405704 | A3 | 19880623 | SU 1982-3529507 19821221 |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| PL 145927 | B1 | 19881130 | PL 1982-256903 19821221 |
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| | | | US 1982-429915 A 19820930 |
| JP 58116486 | A2 | 19830711 | JP 1982-225773 19821222 |
| JP 02051436 | B4 | 19901107 | |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| CS 236867 | B2 | 19850515 | CS 1982-9559 19821222 |
| | | | US 1982-429915 A 19820930 |
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| | | | US 1982-429915 A 19820930 |
| ES 524894 | A1 | 19850201 | ES 1983-524894 19830811 |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| ES 524895 | A1 | 19850201 | ES 1983-524895 19830811 |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| CA 1236828 | A2 | 19880517 | CA 1986-513548 19860710 |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| | | | CA 1982-418192 A3 19821221 |
| FI 8800653 | A | 19880212 | FI 1988-653 19880212 |
| FI 81102 | В | 19900531 | |
| FI 81102 | C | 19900910 | |
| | | | US 1981-334022 A 19811222 |
| | | | US 1982-429915 A 19820930 |
| | | | FI 1982-4409 A 19821221 |
| FI 8800654 | A | 19880212 | FI 1988-654 19880212 |
| FI 81353 | В | 19900629 | |
| | | | |

| FI | 81353 | С | 19901010 | | | | |
|----|----------|----|----------|----|-------------|---|----------|
| | | | | US | 1981-334022 | Α | 19811222 |
| | | | | US | 1982-429915 | Α | 19820930 |
| | | | | FI | 1982-4409 | Α | 19821221 |
| JP | 02270881 | A2 | 19901105 | JP | 1990-33601 | | 19900214 |
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| | | | | US | 1982-429915 | Α | 19820930 |
| DK | 9200690 | A | 19920526 | DK | 1992-690 | | 19920526 |
| | | | | US | 1981-334022 | Α | 19811222 |
| | | | | US | 1982-429915 | Α | 19820930 |
| DK | 9200691 | A | 19920526 | DK | 1992-691 | | 19920526 |
| | | | | US | 1981-334022 | A | 19811222 |
| | | | | US | 1982-429915 | Α | 19820930 |

GΙ

- AB Diesters of alkanedicarboxylic acids with penicillin esters and penicillanates, penicillanate dioxides, or hydroxyethyleneoxaazabicyclohep tanecarboxylates were prepared Thus, I was obtained from Na penicillanate dioxide, ampicillin, and K benzyl trans-1,4-cyclohexanedicarboxylate, ClCH2I, and BrCH2Cl in 10 steps.
- IT 26787-78-0 35334-12-4 68373-14-8 76953-81-6 87343-35-9 87343-46-2

RL: PROC (Process)

(conversion of, to tetrabutylammonium salt)

13149-00-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(esterification of)

T 593-71-5

RL: RCT (Reactant); RACT (Reactant or reagent) (esterification of penicillanic acids by)

T 15014-25-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(methylation of) IT 79634-06-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(neutralization and oxidation of)

IT 19851-61-7 62787-85-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(partial hydrolysis of)

[79634-01-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and chlorination of)

79703-02-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and conversion of, to potassium salt)

T 87353-42-2P

```
87353-01-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
   (preparation and conversion of, to tetrabutylammonium salt)
87352-86-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and deblocking of)
87353-30-8P 87353-32-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and epimerization of)
79886-08-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and esterification of)
87352-99-6P 87353-00-2P 87353-26-2P
                                        87366-97-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrogenation of)
79634-03-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrogenolysis and oxidation of)
87343-24-6P 87343-25-7P 87343-26-8P
                                        87343-38-2P
                                                       87343-43-9P
87343-50-8P
            87343-59-7P
                           87343-62-2P
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87353-24-0P 87353-25-1P
                           87353-33-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrogenolysis of)
87343-54-2P
            87343-56-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
  (preparation and hydrolysis and hydrogenolysis of)
298-14-6P 87352-89-4P 87352-91-8P
                                       87352-93-0P 87353-09-1P
87353-11-5P
            87353-12-6P 87353-17-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and hydrolysis of)
             76350-34-0P
                          76946-48-0P
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                                                      87392-99-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and iodination of)
87343-44-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and neutralization of)
79634-02-9P
            86287-78-7P 86287-79-8P
                                        87353-27-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
   (preparation and oxidation of)
57772-82-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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   (preparation and partial hydrolysis of)
76909-19-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
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(preparation and reaction of, with acetoacetate)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

87353-04-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and conversion of, to sodium salt)

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(Reactant or reagent)
        (preparation and reaction of, with ampicillin derivative)
     87343-39-3P
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        (preparation and reaction of, with ampicillin iodomethyl ester)
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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        (preparation and reaction of, with bromochloromethane)
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                  84458-33-3P
                               87343-48-4P
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     87353-07-9P
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     87343-34-8P 87343-42-8P
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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        (preparation and reaction of, with dioxopenicillanate)
IT
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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        (preparation and reaction of, with dioxopenicillanovloxymethyl
        alkanedicarboxvlates)
     76909-27-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
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        (preparation and reaction of, with dioxopenicillanovloxymethyl glutarate)
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87352-83-8P

87343-55-3P 87343-57-5P

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    87352-92-9P

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     RL: RCT (Reactant); RACT (Reactant or reagent)
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     87343-58-6
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    Substituted alkyl esters of quinoxaline-di-N-oxide-2-carboxylic acid
     1977:190008 CAPLUS
    86:190008
    Substituted alkvl esters of quinoxaline-di-N-oxide-2-carboxvlic acid
    Cronin, Timothy H.; Richardson, Kenneth
    Pfizer Inc., USA
    U.S., 28 pp. Division of U.S. 3,915,975.
    CODEN: USXXAM
    Patent
LA English
FAN.CNT 6
     PATENT NO.
                        KIND DATE APPLICATION NO. DATE
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US 1973-397162 | А3 | 19751009
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| | TD 52103100 | 3.0 | 10001100 | US 1971-207534 | AI | 19711213 |
| | JP 53127486 | A2 | 19781107 | JP 1978-48318 | | 19780422 |
| | JP 55004748 | B4 | 19800131 | HC 1030 200413 | | 10700210 |
| | | | | US 1970-208417
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| | JP 33004749 | 84 | 19800131 | US 1970-208417 | А | 19700318 |
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| | NL 7808009 | A | 19781130 | NL 1978-8009 | А | 19700318
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| FAN | 1973:72208 | | | 05 1970-20842 | м | 19/00316 |
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| | DK 137958 | č | 19781106 | 211 23 10 1021 | | 15.0000. |
| | 21. 25.7500 | Ü | 13101100 | US 1970-20841 | Α | 19700318 |
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| | | | | US | 1971-135792 | A3 | 19710420 |
| | | | | US | 1973-397162 | A3 | 19730913 |
| | | | | | | | |

Quinoxalinecarboxylates I (R = substituted alkyl, R1 = H, C1) (30 compds.) AB were prepared Thus, benzofuroxan was condensed with AcOCH2CH2O2CCH2COMe to give I (R = AcOCH2CH2, R1 = H), which had min. inhibitory concns. against Staphylococcus aureas and EScherichia coli 12.5 and 50, resp., and at 50 g/ton in swine feed gave 53% weight gain over controls.

Bactericides, Disinfectants and Antiseptics

(Quinoxalinecarboxylate dioxides)

Animal growth substances

RL: RCT (Reactant); RACT (Reactant or reagent) (promoters, Quinoxalinecarboxylate dioxides)

1120-64-5 RL: RCT (Reactant); RACT (Reactant or reagent)

(Friedel-Crafts acetylation of) 542-59-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(acetylation of)

34500-02-2 39507-89-6 62776-79-8 62776-80-1 62776-81-2 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(bactericidal activity of)

480-96-6 17348-69-5 RL: RCT (Reactant); RACT (Reactant or reagent)

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RL: RCT (Reactant); RACT (Reactant or reagent)

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        (preparation, hydrolysis, and bactericidal activity of)
     463-51-4 40016-70-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
       (reaction of, with (dimethylamino)ethanol)
     24812-73-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with acetoxyethanol)
     674-82-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with bromoethylamine)
     542-59-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with cyanoquinoxaline dioxide)
     2576-47-8
                57561-39-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with diketene)
     108-01-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with quinoxalinecarboxylate)
=> 87353-40-0
   REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.
```

L7 4 L6

ΙT

=> display hitstr 17 ENTER ANSWER NUMBER OR RANGE (1):1-4

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

IT 87353-40-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

87353-40-0 CAPLUS RN

Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-CN azabicyclo[3.2.0]hept-2-y1)carbony1]oxy]methy1] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Na

- ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
- ТТ 87353-40-0P RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) RN 87353-40-0 CAPLUS

CN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1azabicyclo[3.2.0]hept-2-y1)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Na

- ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN L7
- 87353-40-0 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with acetoacetate)

RN 87353-40-0 CAPLUS

CN Propanedioic acid, mono[[[(3,3-dimethy1-4,4-dioxido-7-oxo-4-thia-1azabicyclo[3.2.0]hept-2-y1)carbony1]oxy]methy1] ester, sodium salt, (2S-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Na

- L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
- IT 87353-40-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
- (preparation of) RN 87353-40-0 CAPLUS
- CN Propanedioic acid, mono[[[(3,3-dimethyl-4,4-dioxido-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-yl)carbonyl]oxy]methyl] ester, sodium salt, (2S-cis) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Na

| => file reg
COST IN U.S. DOLLARS | SINCE FILE
ENTRY | TOTAL |
|--|---------------------|------------------|
| FULL ESTIMATED COST | 13.73 | 254.64 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL
SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -6.00 |

FILE 'REGISTRY' ENTERED AT 06:32:44 ON 28 NOV 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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http://www.cas.org/ONLINE/UG/regprops.html

=> d his

(FILE 'HOME' ENTERED AT 06:14:28 ON 28 NOV 2006)

FILE 'REGISTRY' ENTERED AT 06:14:44 ON 28 NOV 2006

L2 2 SEARCH L1 SSS SAM

FILE 'CAPLUS' ENTERED AT 06:20:14 ON 28 NOV 2006

FILE 'REGISTRY' ENTERED AT 06:22:26 ON 28 NOV 2006 L4 37 SEARCH L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:24:05 ON 28 NOV 2006
L5 22 L4
SAVE TEMP L5 MALONTES/A

\$ 87353-40-0/REG# FILE 'REGISTRY' ENTERED AT 06:29:53 ON 28 NOV 2006 1 \$ 87353-40-0/RN

FILE 'CAPLUS' ENTERED AT 06:29:54 ON 28 NOV 2006 L7 4 S L6

FILE 'REGISTRY' ENTERED AT 06:32:44 ON 28 NOV 2006

=> save temp 14 rawcompnds/a ANSWER SET L4 HAS BEEN SAVED AS 'RAWCOMPNDS/A'

=> file reg COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 263.44 8.80 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -6.00

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

```
http://www.cas.org/ONLINE/UG/regprops.html
=> e Propanedioic acid, mono((acetyloxy)methyl) ester/cn
                   PROPANEDIOIC ACID, MONO((8-FORMYL-4,15,15-TRIMETHYL-14-OXABI
E1
                   CYCLO(11.2.1) HEXADECA-4, 8-DIEN-12-YL) METHYL) ESTER, (1R-(1R*
                   .4Z.8E.12S*.13S*))-/CN
E2
                   PROPANEDIOIC ACID, MONO((8A-((ACETYLOXY)METHYL)-5-(2-(3-FURA
                   NYL) ETHYL) -3, 4, 4A, 5, 6, 7, 8, 8A-OCTAHYDRO-5, 6-DIMETHYL-1-NAPHTH
                   ALENYL) METHYL) ESTER, (4AR-(4AA,5A,6B,8A.BE
                   TA.))-/CN
             1 --> PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN
E4
             1
                   PROPANEDIOIC ACID, MONO((BIS(2-HYDROXYPHENYL)METHYLENE)HYDRA
                   ZIDE)/CN
E 5
                   PROPANEDIOIC ACID, MONO((DECAHYDRO-1, 4A-DIMETHYL-6-METHYLENE
                   -5-(3-METHYL-2, 4-PENTADIENYL)-1-NAPHTHALENYL) METHYL) ESTER,
                   (1R-(1A, 4AA, 5B(Z), 8AB))-/CN
                   PROPANEDIOIC ACID, MONO (Γ-Ω-PERFLUORO-C8-12-ALKY
E6
             1
                   L) DERIVS., BIS(4-(ETHENYLOXY)BUTYL) ESTERS/CN
E7
             1
                   PROPANEDIOIC ACID, MONO (\Gamma-\Omega-PERFLUORO-C8-12-ALKY
                   L) DERIVS., DI-ME ESTERS/CN
             1
                   PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) 2-(((2-ETHOXY-2-0
                   XOETHYL) AMINO) THIOXOMETHYL) HYDRAZIDE/CN
E9
                   PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER/CN
E10
             1
                   PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-((5-CHLO
                   RO-1H-INDOL-2-YL) CARBONYL) HYDRAZIDE/CN
E11
             1
                   PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-METHYL-2
                   - (PHENYLTHIOXOMETHYL) HYDRAZIDE/CN
E12
             1
                   PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, AMMONIUM S
                   ALT/CN
=> e3
L8
             1 "PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER"/CN
=> d 18
    ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
L8
    683251-13-0 REGISTRY
RN
ED
    Entered STN: 19 May 2004
     Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI) (CA
     INDEX NAME)
    C6 H8 O6
ME
SR
LC
    STN Files: CA, CAPLUS
```

AcO-CH2-O-C-CH2-CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 7.54 270,98 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -6.00

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FILE COVERS 1907 - 28 Nov 2006 VOL 145 ISS 23 FILE LAST UPDATED: 27 Nov 2006 (20061127/ED)

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http://www.cas.org/infopolicy.html

1.9 1 1.8 => d 19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN L9 2004:354912 CAPLUS AN 140:374903 DN Process for preparation of malonic acid monoesters Sawabe, Takehiko; Aihara, Kazuhiro; Atsumi, Kunio; Ajito, Keiichi TN PΔ Meiji Seika Kaisha, Ltd., Japan SO PCT Int. Appl., 41 pp. CODEN: PIXXD2

Patent

I.A Japanese

=> 18

FAN.CNT 2

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2004035540 A1 20040429 WO 2003-JP13319 20031017
PΤ
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
            GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
            OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
            TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
    AU 2003301426 A1 20040504 AU 2003-301426 20031017 EP 1561748 A1 20050810 EP 2003-756680 20031017
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                    A1 20051208 US 2005-531382
    TIS 2005272950
PRAI JP 2002-304630
                       A
                              20021018
    JP 2003-50293
                       A
                              20030227
    WO 2003-JP13319
                       W
                              20031017
    MARPAT 140:374903
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
=> logoff hold
COST IN U.S. DOLLARS
                                               SINCE FILE
                                                              TOTAL
                                                          SESSION
                                                    ENTRY
FULL ESTIMATED COST
                                                     1.60
                                                              272.58
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
                                              SINCE FILE
                                                              TOTAL
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CA SUBSCRIBER PRICE
                                                              -6.00
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STN INTERNATIONAL SESSION SUSPENDED AT 06:46:28 ON 28 NOV 2006
Connecting via Winsock to STN
Welcome to STN International! Enter x:x
LOGINID: SSSPTA1623PAZ
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
Web Page for STN Seminar Schedule - N. America
NEWS 2 JAN 02 STN pricing information for 2008 now available
NEWS 3 JAN 16 CAS patent coverage enhanced to include exemplified
                 prophetic substances
NEWS 4 JAN 28
                 USPATFULL, USPAT2, and USPATOLD enhanced with new
                 custom IPC display formats
NEWS 5 JAN 28 MARPAT searching enhanced
NEWS 6 JAN 28 USGENE now provides USPTO sequence data within 3 days
                 of publication
NEWS 7 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
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NEWS 8 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
NEWS 9 FEB 08 STN Express, Version 8.3, now available
NEWS 10 FEB 20 PCI now available as a replacement to DPCI
NEWS 11 FEB 25 IFIREF reloaded with enhancements
NEWS 12 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 13 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                U.S. National Patent Classification
NEWS 14 MAR 31
                IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                IPC display formats
NEWS 15 MAR 31 CAS REGISTRY enhanced with additional experimental
                spectra
NEWS 16 MAR 31 CA/Caplus and CASREACT patent number format for U.S.
                applications updated
NEWS 17 MAR 31 LPCI now available as a replacement to LDPCI
NEWS 18 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 19 APR 04 STN AnaVist, Version 1, to be discontinued
NEWS 20 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new
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FILE 'HOME' ENTERED AT 08:55:53 ON 16 APR 2008

=> file req COST IN U.S. DOLLARS

NEWS IPC8

specific topic.

ENTRY SESSION FULL ESTIMATED COST 0.21 0.21 FILE 'REGISTRY' ENTERED AT 08:56:05 ON 16 APR 2008

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http://www.cas.org/support/stngen/stndoc/properties.html

```
=> e malonic acid/cn
                    MALONHYDRAZIDE HYDROCHLORIDE/CN
E2
                    MALONHYDROXAMIC ACID, ISONITROSO-/CN
E3
              1 --> MALONIC ACID/CN
E4
                    MALONIC ACID (B-HYDROXY-A-METHYL-P-NITROCINNAMYLI
              1
                     DENE) -, F-LACTONE, METHYL ESTER/CN
E5
              1
                    MALONIC ACID (2-HYDROXY-1-ANTHRYLMETHYLENE)-, A-LACTON
                     E, ETHYL ESTER/CN
E6
                    MALONIC ACID (OXYDIMETHYLENE) BIS (ALLYL-/CN
              1
E7
                    MALONIC ACID (P-CHLORO-A-HYDROXY-B-MERCAPTOCINNAM
              1
                     YLIDENE) -, F-(THIO LACTONE), ALLYL ESTER/CN
EΩ
              1
                     MALONIC ACID ANHYDRIDE/CN
E9
                    MALONIC ACID BARIUM SALT/CN
              1
                    MALONIC ACID BENZYL ETHYL ESTER/CN
E10
              1
E11
             1
                    MALONIC ACID BENZYL TERT-BUTYL ESTER/CN
E12
                    MALONIC ACID BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER/
                     CN
=> e e12
              1
                     MALONIC ACID BENZYL ETHYL ESTER/CN
E2
              1
                     MALONIC ACID BENZYL TERT-BUTYL ESTER/CN
E3
              1 --> MALONIC ACID BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER/
                     CN
E4
              1
                     MALONIC ACID BIS(2-PROPYLIDENEHYDRAZIDE)/CN
                   MALONIC ACID CHLORIDE/CN
E5
             1
            1 MALONIC ACID CHLORIDE ETHYL ESTER/CN
1 MALONIC ACID CHLORIDE ETHYL ESTER/CN
1 MALONIC ACID CHLORIDE MONOETHYL ESTER/CN
1 MALONIC ACID CHLORIDE MONOETHYL ESTER/CN
1 MALONIC ACID COMPD. WITH DL-HISTIDINE (1:1)/CN
1 MALONIC ACID COMPD. WITH L-HISTIDINE (1:1)/CN
1 MALONIC ACID DIAMIDE/CN
1 MALONIC ACID DIAMIDE/CN
Ε6
E7
E8
E.G
E10
E11
E12
=> e e12
                   MALONIC ACID COMPD. WITH L-HISTIDINE (1:1)/CN
E1
              1
E2
              1
                    MALONIC ACID DIAMIDE/CN
E3
              1 --> MALONIC ACID DIANILIDE/CN
E4
              1
                    MALONIC ACID DICHLORIDE/CN
E5
                    MALONIC ACID DIHYDRAZIDE-N-METHYLDIETHANOLAMINE-POLYTETRAMET
              1
                    HYLENE GLYCOL-TDI BLOCK COPOLYMER/CN
                   MALONIC ACID DIHYDRAZIDE-PYROMELLITIC DIANHYDRIDE POLYMER/CN
E6
             1
E7
                   MALONIC ACID DIMETHYL ESTER SODIUM SALT/CN
             1
E8
              1
                   MALONIC ACID DIMORPHOLIDE/CN
                   MALONIC ACID DINITRILE/CN
              1
             1
                   MALONIC ACID DIPHENYLAMIDE/CN
              1
                    MALONIC ACID ETHYL ESTER CHLORIDE/CN
E11
E12
              1
                    MALONIC ACID ETHYL ESTER NITRILE/CN
=> e e12
E1
              1
                    MALONIC ACID DIPHENYLAMIDE/CN
E2
                    MALONIC ACID ETHYL ESTER CHLORIDE/CN
E3
             1 --> MALONIC ACID ETHYL ESTER NITRILE/CN
E4
             1 MALONIC ACID ETHYL ESTER POTASSIUM SALT/CN
                   MALONIC ACID HEXAHYDRATE/CN
E5
             1
E6
             1
                    MALONIC ACID HEXAMETHYLENEDIAMINE SALT/CN
```

```
E7
            1
                 MALONIC ACID HYDRAZIDE/CN
E8
            1
                 MALONIC ACID IMIDAZOLE SALT/CN
E9
            1
                 MALONIC ACID LEAD(2+) SALT (1:1)/CN
E10
                MALONIC ACID MAGNESIUM SALT P-METHOXYBENZYL ESTER/CN
            1
E11
            1
                MALONIC ACID MANGANESE(2+) SALT (1:1)/CN
E12
                 MALONIC ACID METHYL TERT-BUTYL ESTER/CN
           1
=> e4
            1 "MALONIC ACID ETHYL ESTER POTASSIUM SALT"/CN
L1
=> d 11
    ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN
    6148-64-7 REGISTRY
ED
   Entered STN: 16 Nov 1984
CN Propanedioic acid, 1-ethyl ester, potassium salt (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
   Malonic acid, monoethyl ester, potassium salt (8CI)
CN Propanedioic acid, monoethyl ester, potassium salt (9CI)
OTHER NAMES:
CN
    3-Ethoxy-3-oxopropanoic acid potassium salt
CN
    Ethyl malonate potassium salt
CN
    Ethyl potassium malonate
CN
   Malonic acid ethyl ester potassium salt
CN
    Malonic ethyl ester potassium salt
CN
    Monoethyl malonate potassium salt
CN
    Monoethyl potassium malonate
CN
    Potassium ethvl malonate
CN
    Potassium monoethyl malonate
    C5 H8 O4 . K
MF
    STN Files:
LC
               BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
      CHEMINFORMRX, CHEMLIST, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB,
      MSDS-OHS, PS, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL, USPATOLD
        (*File contains numerically searchable property data)
    Other Sources: EINECS**
         (**Enter CHEMLIST File for up-to-date regulatory information)
CRN (1071-46-1)
EtO-C-CH2-CO2H
     ● K
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

344 REFERENCES IN FILE CA (1907 TO DATE) 345 REFERENCES IN FILE CAPLUS (1907 TO DATE) 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> e prpandioic acid, ethyl ester/cn

E1 1 PRP8BP-PENDING PROTEIN (MOUSE STRAIN C57BL/6 CLONE MGC:66747 IMAGE:5714866)/CN

E2 1 PRP8BP-PENDING-PROV PROTEIN (XENOPUS LAEVIS CLONE MGC:53216

| | IMAGE:5543312)/CN | |
|---|--|----------------|
| E3 | 0> PRPANDIOIC ACID, ETHYL ESTER/CN | |
| E4 | 1 PRPB PROTEIN (ESCHERICHIA COLI STRAIN UT189 GENE PRPB)/CN | |
| E5 | 1 PRPC (BACILLUS LICHENIFORMIS STRAIN DSM13 GENE PRPC)/CN | |
| E6 | 1 PRPD PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE P | DD |
| 100 | D)/CN | IVL |
| E7 | 1 PRPD PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN CT18 GENE P | DD |
| | D)/CN | A V L |
| E8 | 1 PRPD PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN TY2 GENE PR | DD |
| 10 |)/CN | ED |
| E9 | 1 PRPE PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN CT18 GENE P | o o |
| E.5 | E)/CN | N.F |
| E10 | 1 PRPE PROTEIN (SALMONELLA ENTERICA TYPHI STRAIN TY2 GENE PR | DE |
| EIO |)/CN | E E |
| E11 | 1 PRPE PROTEIN (VIBRIO CHOLERAE STRAIN N16961 GENE VC1340)/C | NT |
| E12 | 1 PRPE PROTEIN (VIBRIO PARAHAEMOLYTICUS STRAIN 03:K6 GENE VP | |
| 512 | 44)/CN | 10 |
| | 44)/CN | |
| -> a nanand | oic soid othul octor/on | |
| E1 | oic acid, ethyl ester/cn 1 POP4 PROTEIN (MOUSE STRAIN FVB/N CLONE MGC:11597 IMAGE:396 | 63 |
| PI | 71)/CN (MOUSE STRAIN FVB/N CLONE MGC:1139/ IMAGE:396 | 03 |
| 70 | | 0.0 |
| E2 | | OP |
| =0 | A)/CN | |
| E3 | 0> POPANDIOIC ACID, ETHYL ESTER/CN | |
| E4 | 1 POPB PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE P | OP |
| = - | B) /CN | |
| E5 | 3 POPC/CN | |
| E6 | 1 POPC PROTEIN (RALSTONIA SOLANACEARUM STRAIN GMI1000 GENE P | OP |
| | C)/CN | |
| E7 | 1 POPCORN IRON/CN
1 POPD/CN | |
| E8 | | |
| | | |
| E9 | 1 POPDA/CN | |
| E9
E10 | 1 POPDA/CN
1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN | |
| E9
E10
E11 | 1 POPDA/CN
1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN
1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN | |
| E9
E10 | 1 POPDA/CN
1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN | |
| E9
E10
E11
E12 | 1 POPDA/CN POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN POPDP/CN | |
| E9
E10
E11
E12
=> e propane | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, ethyl ester/cn | |
| E9
E10
E11
E12
=> e propane
E1 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, ethyl ester/cn 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN | |
| E9
E10
E11
E12
=> e propane | 1 POPDA/CN 1 POPDA PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, ethyl ester/cn 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL 8-METHYL-8-AZABICYCLO(3.2.1)OCT-3 | -Y |
| E9
E10
E11
E12
=> e propane
E1
E2 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, ethyl ester/cn 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN PROPAMEDIOIC ACID, ETHYL 8-METHYL-8-AZABICYCLO(3.2.1)OCT-3 L ESTER, ENDO-/CN | - Y |
| E9
E10
E11
E12
=> e propane
E1
E2
E3 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 2 POPDP/CN 2 dioic acid, ethyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL 8-METHYL-8-AZABICYCLO(3.2.1)OCT-3 L ESTER, ENDO-/CN 0> PROPANEDIOIC ACID, ETHYL ESTER/CN | -Y |
| E9
E10
E11
E12
=> e propane
E1
E2
E3
E4 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN 1 POPDA/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 ESTER, ENDO-/CN 0> PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN | -Y |
| E9
E10
E11
E12
=> e propane
E1
E2
E3
E4
E5 | POPDA/CN POPDA/CN POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN POPDP/CN dioic acid, ethyl ester/cn PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN PROPANEDIOIC ACID, ETHYL 8-METHYL-8-AZABICYCLO(3.2.1)OCT-3 L ESTER, ENDO-/CN 0> PROPANEDIOIC ACID, ETHYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN | -Y |
| E9
E10
E11
E12
=> e propane
E1
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E3
E4
E5
E6 | 1 POPDA/CN 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN 1 POPDA/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTHYL-8-AZABICYCLO(3.2.1)OCT-3 L ESTER, ENDO-/CN 0> PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL HETHYL-2,2,2-D3 ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL HETHYL-9,20 PROPAMEDIOIC ACID, ETHYL METHYL-9,20 PROPAMEDIOIC ACID, ETHYL METHOXYMETHYL ESTER/CN | -Y |
| E9
E10
E11
E12
=> e propana
E1
E2
E3
E4
E5
E6
E7 | 1 POPDA/CN 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MSC:70008 IMAGE:30287674)/CN 3 POPDA/CN 3 POPDA/CN 3 POPDA/CN 4 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL 8-METHYL-8-AZABICYCLO(3.2.1)OCT-3 6 L ESTER, ENDO-/CN 6> PROPAMEDIOIC ACID, ETHYL ESTER/CN 7 PROPAMEDIOIC ACID, ETHYL ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL HETHYL ESTER/CN 9 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN | -Y |
| E9
E10
E11
E12
=> e propane
E1
E2
E3
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E5
E6
E7
E8 | 1 POPDA/CN 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDP/CN dioic acid, ethyl ester/cn 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTHYL-8-AZABICYCLO(3.2.1)OCT-3 L ESTER, EMDO-/CN 0> PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL HERYL-2,2,2-D3 ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL-8-THYL-8-TER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN | - Y |
| E9 E10 E11 E12 => e propant E2 E3 E4 E5 E6 E7 E8 E9 | 1 POPDA/CN 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MSC:70008 IMAGE:30287674)/CN 3 POPDA/CN 3 POPDA/CN 3 POPDA/CN 4 POPDA/CN 4 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 3 PROPAMEDIOIC ACID, ETHYL 8-HETHYL-8-AZABICYCLO(3.2.1)OCT-3 4 L ESTER, ENDO-/CN 4 PROPAMEDIOIC ACID, ETHYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN | |
| E9
E10
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E12
=> e propane
E1
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E8 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDP/CN dioic acid, ethyl ester/cn 1 PROPAMEDIOIC ACID, ETHYL 8-MEPTADECENYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL 8-MEPTHYL-8-AZABICYCLO(3.2.1)OCT-3 L ESTER, EMDO-/CN 0> PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL EHYL-2,2,2-D3 ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL-2,2,2-D3 ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL-STER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM, PO | LY |
| E9 E10 E11 E12 => e propant E2 E3 E4 E5 E6 E7 E8 E9 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 2 POPDY/CN dioic acid, ethyl ester/cn 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 LESTER, ENDO-/CN 0> PROPAMEDIOIC ACID, ETHYL 8-HEPTHYL-8-AZABICYCLO(3.2.1)OCT-3 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL HETHYL-2,2,2-D3 ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL HETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHOXYMETHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPAMEDIOIC ACID, ETHYL HETHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 2 MER WITH 4,4'-DIIODO-1,1'-BTHENLY AND 1,2,10',11-DODECATET | LY |
| E9 E10 E11 E12 E Propane E1 E3 E4 E5 E6 E7 E8 E9 E10 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 3 LESTER, ENDO-/CN 4 PROPANEDIOIC ACID, ETHYL ESTER/CN 5 PROPANEDIOIC ACID, ETHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HEXYL-2,2,2-D3 ESTER/CN 7 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN 8 PROPANEDIOIC ACID, ETHYL METHYL ESTER/CN 9 PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 MER WITH 4,4'-DIIODO-1,1'-BIPHENYL AND 1,2,10,11-DODECATET 1 ENE/CN | LY |
| E9 E10 E12 => e propant E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 E11 | 1 POPDA/CN 1 POPDA/CN 2 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDY/CN 2 POPDY/CN 3 POPDA/CN 4 POPDA/CN 4 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 4 PROPAMEDIOIC ACID, ETHYL 8-HEPTALECENYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL STER/CN 6 PROPAMEDIOIC ACID, ETHYL ESTER/CN 7 PROPAMEDIOIC ACID, ETHYL HEYLYL ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL HEYLYL ESTER/CN 9 PROPAMEDIOIC ACID, ETHYL METHYLY ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 2 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN | LY |
| E9 E10 E11 E12 E Propane E1 E3 E4 E5 E6 E7 E8 E9 E10 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 3 LESTER, ENDO-/CN 4 PROPANEDIOIC ACID, ETHYL ESTER/CN 5 PROPANEDIOIC ACID, ETHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HEXYL-2,2,2-D3 ESTER/CN 7 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN 8 PROPANEDIOIC ACID, ETHYL METHYL ESTER/CN 9 PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 MER WITH 4,4'-DIIODO-1,1'-BIPHENYL AND 1,2,10,11-DODECATET 1 ENE/CN | LY |
| E9 E10 E11 E12 => e propant E1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 E11 E12 | 1 POPDA/CN 1 POPDA/CN 2 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDY/CN 2 POPDY/CN 3 POPDA/CN 3 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 4 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL ESTER/CN 7 PROPAMEDIOIC ACID, ETHYL ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL HERYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 2 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 3 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 4 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 5 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 7 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 9 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN | LY |
| E9 E10 E11 E12 E3 E4 E5 E7 E8 E9 E10 E11 E12 E12 E12 E> c propand | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 LESTER, ENDO-/CN 3 LESTER, ENDO-/CN 4 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 5 PROPANEDIOIC ACID, ETHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL ESTER/CN 7 PROPANEDIOIC ACID, ETHYL ESTER/CN 8 PROPANEDIOIC ACID, ETHYL HERYL-2,2,2-D3 ESTER/CN 8 PROPANEDIOIC ACID, ETHYL HERYL ESTER/CN 9 PROPANEDIOIC ACID, ETHYL HERYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-)/CN 1 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 1 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM, PO MER WITH 4,4'-DIIODO-1,1'-BIPHENYL AND 1,2,10,11-DODECATET 8 ENE/CN 1 PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-) 8 ENE/CN 1 PROPANEDIOIC ACID, ETHYL METHYL ESTER, ION(1-) 8 ENE/CN 1 PROPANEDIOIC ACID, ETHYL DOTYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN 2 Giolic acid, methyl ester/cn dioic acid, methyl ester/cn | LY
RA |
| E9 E10 E11 E12 => e propant E1 E1 E2 E3 E4 E5 E6 E7 E8 E9 E10 E11 E12 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 4 POPDY/CN 3 POPPAMED CACID, ETHYL 8-HEPTADECENYL ESTER/CN 4 PROPAMEDIOIC ACID, ETHYL 8-HEPTALECENYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL ESTER/CN 7 PROPAMEDIOIC ACID, ETHYL HETHYL-2,2,2-D3 ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL HETHYL ESTER/CN 9 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 1 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 1 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 3 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 3 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 3 PROPAMEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN 3 PROPAMEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN 3 PROPAMEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN 4 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN | LY
RA |
| E9 E10 E11 E12 E12 E1 E12 E1 E1 E1 E12 E1 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 ESTER, ENDO-/CN 1 PROPANEDIOIC ACID, ETHYL ESTER/CN 2 PROPANEDIOIC ACID, ETHYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER, ION(1-)/CN 1 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER, ION(1-), SODIUM/CN 1 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER, ION(1-), SODIUM/CN 1 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER, ION(1-), SODIUM/CN 2 ENE/CN 1 PROPANEDIOIC ACID, ETHYL DETHYL ESTER, ION(1-), SODIUM/CN 2 ENE/CN 3 PROPANEDIOIC ACID, ETHYL DETHYL ESTER/CN 3 PROPANEDIOIC ACID, ETHYL PENTACHOROPHENYL ESTER/CN 3 CICIC ACID, ETHYL PENTACHOROPHENYL ESTER/CN 4 CICIC ACID, ETHYL FENTACHOROPHENYL ESTER/CN 5 CICIC ACID, ETHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR-7-YL)OXY) BEXYL ESTER/CN | LY
RA
AN |
| E9 E10 E11 E12 E3 E4 E5 E7 E8 E9 E10 E11 E12 E12 E12 E> c propand | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 4 POPDY/CN 3 POPDA/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPAMEDIOIC ACID, ETHYL 8-HEPTALE-AZABICYCLO(3.2.1)OCT-3 3 L ESTER, ENDO-/CN 4 PROPAMEDIOIC ACID, ETHYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL HEYYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL HEYYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 6 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 7 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 8 PROPAMEDIOIC ACID, ETHYL PENTACHLOROPHENYL ESTER/CN 8 PROPAMEDIOIC ACID, METHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR 7 - TL)OXY) HEXYL ESTER/CN 8 PROPAMEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY 8 PROPAMEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY 8 PROPAMEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY | LY
RA
AN |
| E9 E10 E11 E12 E2 E propand E1 E3 E4 E5 E6 E7 E8 E9 E10 E11 E12 E1 E12 E1 E1 E1 E1 E2 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPANEDIOIC ACID, ETHYL ESTER/CN 3 PROPANEDIOIC ACID, ETHYL ESTER/CN 4 PROPANEDIOIC ACID, ETHYL ESTER/CN 5 PROPANEDIOIC ACID, ETHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HEXYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER, ION(1-)/CN 6 PROPANEDIOIC ACID, ETHYL HEXTHYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL DETTYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL PENTACHOROPHENYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR -7-YL)OXY) HEXYL ESTER/CN 6 PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY CTYL ESTER/CN 6 PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY CTYL ESTER/CN | LY
RA
AN |
| E9 E10 E1 E1 E2 E3 E Propance E1 E1 E1 E2 E3 E5 E6 E7 E8 E9 E10 E1 E1 E1 E1 E1 E1 E1 E2 E3 E5 E6 E7 E8 E9 E10 E1 E1 E1 E2 E3 | 1 POPDA/CN 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDP/CN 1 POPDP/CN 1 POPDP/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPAMEDIOIC ACID, ETHYL 8-HEPTHYL-8-AZABICYCLO(3.2.1)OCT-3 3 L ESTER, ENDO-/CN 3 PROPAMEDIOIC ACID, ETHYL ESTER/CN 4 PROPAMEDIOIC ACID, ETHYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL HENYL-2,2,2-D3 ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL HENYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL HENYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 6 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 7 PROPAMEDIOIC ACID, METHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR 7 -7 -7 L)OXY) HEXYL ESTER/CN 8 PROPAMEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY 6 CTYL ESTER/CN 8 THE TOTAL THE TO | LY
RA
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| E9 E10 E11 E12 => e propand E1 E2 E3 E4 E5 E6 E7 E5 E10 E11 E12 E2 E3 E4 E5 E6 E7 E5 E5 E7 E5 E5 E7 E5 E5 E7 E5 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPANEDIOIC ACID, ETHYL ESTER/CN 3 PROPANEDIOIC ACID, ETHYL ESTER/CN 4 PROPANEDIOIC ACID, ETHYL ESTER/CN 5 PROPANEDIOIC ACID, ETHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-)/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-)/SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL DETTYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL PENTACHOROPHENYL ESTER/CN 7 PROPANEDIOIC ACID, ETHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR -7-YL)OXY) HEXYL ESTER/CN 7 PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY CTYL ESTER/CN 8 PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY CTYL ESTER/CN 8 PROPANEDIOIC ACID, METHYL ESTER/CN 9 PROPANEDIOIC ACID, METHYL ESTER/CN 1 PROPANEDIOIC ACID, METHYL BESTER/CN 1 PROPANEDIOIC ACID, METHYL BESTER/CN 1 PROPANEDIOIC ACID, METHYL BESTER/CN 1 PROPANEDIOIC ACID, METHYL METHYL-D3 ESTER/CN | LY
RA
AN |
| E9 E10 E1 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 2 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 3 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 4 POPDP/CN 1 POPDP/CN 1 PROPAMEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPAMEDIOIC ACID, ETHYL 8-HEPTHYL-8-AZABICYCLO(3.2.1)OCT-3 3 L ESTER, ENDO-/CN 4 PROPAMEDIOIC ACID, ETHYL ESTER/CN 5 PROPAMEDIOIC ACID, ETHYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL HERYL-2,2,2-D3 ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL HERYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-)/CN 6 PROPAMEDIOIC ACID, ETHYL METHYL ESTER, ION(1-), SODIUM/CN 6 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 6 PROPAMEDIOIC ACID, ETHYL OCTYL ESTER/CN 7 PROPAMEDIOIC ACID, METHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR 7 PROPAMEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY 6 CTYL ESTER/CN 7 PROPAMEDIOIC ACID, METHYL B-((TETRAHYDRO-2H-PYRAN-2-YL)OXY 7 PROPAMEDIOIC ACID, METHYL B-((TETRAHYDRO-2H-PYRAN-2-YL)OXY 8 PROPAMEDIOIC ACID, METHYL METHYL DSTER/CN 7 PROPAMEDIOIC ACID, METHYL METHYL BSTER/CN 8 PROPAMEDIOIC ACID, METHYL METHYL BSTER/CN 9 PROPAMEDIOIC ACID, METHYL METHYL BSTER/CN 1 PROPAMEDIOIC ACID, METHYL METHYL BSTER/CN | LY
RA
AN |
| E9 E10 E11 E12 => e propand E1 E2 E3 E4 E5 E6 E7 E5 E10 E11 E12 E2 E3 E4 E5 E6 E7 E5 E5 E7 E5 E5 E7 E5 E5 E7 E5 | 1 POPDA/CN 1 POPDC2 PROTEIN (HUMAN CLONE IMAGE:4517469)/CN 1 POPDC2 PROTEIN (MOUSE CLONE MGC:70008 IMAGE:30287674)/CN 1 POPDP/CN dioic acid, sthyl ester/cn 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 1 PROPANEDIOIC ACID, ETHYL 8-HEPTADECENYL ESTER/CN 2 PROPANEDIOIC ACID, ETHYL ESTER/CN 3 PROPANEDIOIC ACID, ETHYL ESTER/CN 4 PROPANEDIOIC ACID, ETHYL ESTER/CN 5 PROPANEDIOIC ACID, ETHYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-)/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-)/SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL HERYL ESTER, ION(1-), SODIUM/CN 6 PROPANEDIOIC ACID, ETHYL DETTYL ESTER/CN 6 PROPANEDIOIC ACID, ETHYL PENTACHOROPHENYL ESTER/CN 7 PROPANEDIOIC ACID, ETHYL 6-((4-METHYL-2-OXO-2H-1-BENZOPYR -7-YL)OXY) HEXYL ESTER/CN 7 PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY CTYL ESTER/CN 8 PROPANEDIOIC ACID, METHYL 8-((TETRAHYDRO-2H-PYRAN-2-YL)OXY CTYL ESTER/CN 8 PROPANEDIOIC ACID, METHYL ESTER/CN 9 PROPANEDIOIC ACID, METHYL ESTER/CN 1 PROPANEDIOIC ACID, METHYL BESTER/CN 1 PROPANEDIOIC ACID, METHYL BESTER/CN 1 PROPANEDIOIC ACID, METHYL BESTER/CN 1 PROPANEDIOIC ACID, METHYL METHYL-D3 ESTER/CN | LY
RA
AN |

```
E.7
             1
                   PROPANEDIOIC ACID, METHYL PHENYLMETHYL ESTER/CN
E8
                   PROPANEDIOIC ACID, METHYL PROPYL ESTER/CN
             1
E9
             1
                   PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-4,4,9,11B-TETRAMETH
                   YL-8-(3-METHYL-1-OXOBUTOXY)-9,11A-METHANO-11AH-CYCLOHEPTA(A)
                   NAPHTHALEN-6-YL ESTER, (4AS-(4AA,6B,6AB,8.AL
                   PHA., 9B, 11A, BET/CN
                   PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-4, 4, 9, 11B-TETRAMETH
E10
             1
                   YL-8-METHYLENE-9, 11A-METHANO-11AH-CYCLOHEPTA (A) NAPHTHALEN-6-
                   YL ESTER, (4AS-(4AA,6B,6AB,9B,11AB
                   ,11BB))-/CN
E11
                   PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-4,4,9,11B-TETRAMETH
                   YL-9,11A-METHANO-11AH-CYCLOHEPTA (A) NAPHTHALEN-8-YL ESTER, (4
                   AS-(4AA, 6AB, 8A, 9B, 11AB, 11BB)
                   ) - / CN
E12
             1
                   PROPANEDIOIC ACID, METHYL TETRADECAHYDRO-6-HYDROXY-4,4,9,11B
                   -TETRAMETHYL-9, 11A-METHANO-11AH-CYCLOPENTA(A)NAPHTHALEN-8-YL
                    ESTER, (4AS-(4AA,6B,6AB,8A,9B,11
                   AB, 11BB) ) -/CN
=> e3
             1 "PROPANEDIOIC ACID, METHYL ESTER"/CN
L2
=> d 12
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
     214222-46-5 REGISTRY
RN
ED
     Entered STN: 12 Nov 1998
    Propanedioic acid, methyl ester (9CI) (CA INDEX NAME)
MF
    C3 H4 O4 . x C H4 O
SR
    CA
LC
    STN Files: CA, CAPLUS
    CM
          1
     CRN 141-82-2
     CMF C3 H4 O4
HO2C-CH2-CO2H
     CM
    CRN 67-56-1
     CME C H4 O
нзс-он
               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
=> file caplus
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                  TOTAL
                                                       ENTRY
                                                                SESSION
```

17.06

17.27

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FULL ESTIMATED COST

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FILE COVERS 1907 - 16 Apr 2008 VOL 148 ISS 16 FILE LAST UPDATED: 15 Apr 2008 (20080415/ED)

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http://www.cas.org/infopolicy.html

2 L2

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=> 1
L3 1653089 L
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=> 12 L4

=> d 14 1-2 ti fbib abs

- L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Catalytic system for cationic oligomerization of individual linear olefins or their mixtures
- AN 2003:826894 CAPLUS
- DN 140:148874
- ${\tt TI}$ Catalytic system for cationic oligomerization of individual linear olefins or their mixtures
- IN Matkovskii, P. E.; Startseva, G. P.; Aldoshin, S. M.; Mikhajlovich, D.; Stankovich, V.
- PA Institut Problem Khimicheskoi Fiziki RAN, Russia; NIS Neftyanaya Industriva Serbii, NIS - Rafineriva Nefti Novi Sad
- SO Russ., No pp. given CODEN: RUXXE7
- DT Patent
- LA Russian
- FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| | | | | | |
| PI | RU 2212935 | C2 | 20030927 | RU 2001-109009 | 20010405 |
| | | | | RU 2001-109009 | 20010405 |

- OS MARPAT 140:148874
- AB

 This invention describes cationic catalytic systems and catalysts for oligomerization of individual C3-C14 olefins (LAO) or their mixts. to synthetic base poly- alpha-olefin oils (PACO) and other types of lubricating oils for use in automobile, aviation, and transmission purposes. The invention proposes a mixed catalytic systems RnAlX3-n-R'X for cationic oligomerization of individual LAO or their mixts. to synthetic PACO base oils, (wherein R is Me, Et, Pr or iso-Buy X is C1, Br, I; n = 1.0; 1.5 or 2.0; R' is a primary, secondary or tertiary alky1, ally1, benzy1, acty1 or benzoy1) and the system addnl. contains from 0.2 to 1.5 mol (mainly from 0.25 to 0.75 mol) of organic modifying agent per each mole of RnAlX3-n. As an organic modifying agent for the system, the

catalytic system comprises substances taken from the following group: ethylene glycol monomethyl ether, ethylene glycol monomethyl ether (Et cellosolve), acetylacetone, ethylene glycol di-Me ether, ethylene glycol di-Et ether, ethylene glycol Et Me ether, ethylene glycol methoxyacetate, ethylene glycol ethoxyacetate, ethylene glycol di-Et ether, ethylene glycol di-Et esters, acetic acid anhydride, and benzophenone. The developed catalytic systems RnAlX3-n--R'X combine high activity, high specific reproducibility, high selectivity by end products, universality with respect to olefin raw and provide preparing end products with lower solidification temperature points.

These

oligomers exhibit improved properties.

- L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Urinary organic acid screening by solid-phase microextraction of the methyl esters
- AN 1998:578162 CAPLUS
- DN 129:287530
- TI Urinary organic acid screening by solid-phase microextraction of the methyl esters
- AU Liebich, H. M.; Gesele, E.; Woll, J.
- CS Medizinische Universitatsklinik, Tubingen, D-72076, Germanv
- SO Journal of Chromatography, B: Biomedical Sciences and Applications (1998), 713(2), 427-432
- CODEN: JCBBEP; ISSN: 0378-4347 PB Elsevier Science B.V.
- DT Journal
- LA English
- AB We developed a new sample preparation method for profiling organic acids in urine
 - by GC or GC-MS. The method includes derivatization of the organic acids directly in the aqueous urine using trimethyloxonium tetrafluoroborate as a methylating agent, extraction of the organic acid Me esters from the urine by solid-phase microextn., using a polyacrylate fiber with a thickness of 85 µm and transfer of the Me esters into the GC or ME instrument. Desorption of the analytes takes place in the heated injection port. The proposed sample preparation is very simple. There is no need for any
- evaporation
 step and for the use of an organic solvent. The risk of contamination and
 the loss of analytes are minimized. The total sample preparation time prior to
 GC or GC-MS anal is about 40 min, and therefore more rapid than other
- sample preparation procedures. The urinary organic acids are well separated by ${\tt GC}$ and
- 29 substances are identified by GC-MS.
- RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

| => logoff hold
COST IN U.S. DOLLARS | SINCE FILE
ENTRY | TOTAL
SESSION |
|--|---------------------|------------------|
| FULL ESTIMATED COST | 12.74 | 30.01 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL |
| CA SUBSCRIBER PRICE | -1.60 | -1.60 |

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 09:05:53 ON 16 APR 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD:

** * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * * SESSION RESUMED IN FILE 'CAPLUS' AT 09:17:28 ON 16 APR 2008 FILE 'CAPLUS' ENTERED AT 09:17:28 ON 16 APR 2008 COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

| COST IN U.S. DOLLARS FULL ESTIMATED COST | SINCE FILE
ENTRY
12.74 | TOTAL
SESSION
30.01 |
|--|------------------------------|---------------------------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| CA SUBSCRIBER PRICE | ENTRY
-1.60 | SESSION
-1.60 |
| => file reg
COST IN U.S. DOLLARS | SINCE FILE | TOTAL
SESSION |
| FULL ESTIMATED COST | 13.22 | 30.49 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL
SESSION |
| CA SUBSCRIBER PRICE | -1.60 | -1.60 |

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STRUCTURE FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8
DICTIONARY FILE UPDATES: 15 APR 2008 HIGHEST RN 1015083-77-8

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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http://www.cas.org/support/stngen/stndoc/properties.html

_ .

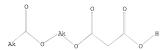
chain nodes:
1 2 3 4 5 6 7 9 10 11 12 13 14
chain bonds:
1-7 1-13 2-6 2-3 2-12 3-4 4-5 4-9 5-10 7-11 7-14 12-13
exact/norm bonds:
1-7 1-13 2-6 2-12 7-11 7-14 12-13
exact bonds:
2-3 3-4 5-10
normalized bonds:
4-5 4-9

Hydrogen count:
3:>= minimum 2 5:>= minimum 1
Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS
Element Count:
Node 13: Limited C,C1-6
C,C1-6

Node 14: Limited C,C1-6

L5 STRUCTURE UPLOADED

=> d 15 L5 HAS NO ANSWERS L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> search 15 sss sam SAMPLE SEARCH INITIATED 09:18:48 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 13920 TO ITERATE

14.4% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01 0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 271332 TO 285468
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> search 15 sss full

FULL SEARCH INITIATED 09:18:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 274096 TO ITERATE

100.0% PROCESSED 274096 ITERATIONS SEARCH TIME: 00.00.14

L7 19 SEA SSS FUL L5

15 0001 000

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN IN Propanedioic acid, 1-[2-[(2-methyl-1-oxo-2-propen-1-y1)oxy]ethyl] ester, polymer with cyclohexyl 2-methyl-2-propenoate and methyl

19 ANSWERS

2-methyl-2-propenoate MF (C10 H16 O2 . C9 H12 O6 . C5 H8 O2)x

CI PMS

=> d scan

CM 1

CM 2

CM 3

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Hexonic acid, 5-0-(2-0-acetylhexopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyloctadecyl ester, 2-acetate 6-(hydrogen propanedioate) (9CI)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate) and methyl IN 2-methyl-2-propenoate (9CI)
- (C10 H14 O4 . C9 H12 O6 . C5 H8 O2)x MF
- PMS

CI

CM 2

CM 3

- 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN L7
- Propanedioic acid, mono[(3-methyl-1-oxobutoxy)methyl] ester (9CI) IN
- MF C9 H14 O6

$$\begin{array}{c|c} O & O \\ \parallel & \parallel \\ \text{HO}_2\text{C} - \text{CH}_2 - \text{C} - \text{O} - \text{CH}_2 - \text{O} - \text{C} - \text{Bu} - \text{id} \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Propanedioic acid, mono[(2,2-dimethyl-1-oxopropoxy)methyl] ester (9CI)

MF C9 H14 O6

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Butenedioic acid (2E)-, bis(2-ethylhexyl) ester, polymer with ethenylbenzene, 2,5-furandione and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl hydrogen propanedioate (9GI)

MF (C20 H36 O4 . C9 H12 O6 . C8 H8 . C4 H2 O3)x

CI PMS

CM

CM

Double bond geometry as shown.

CM 3

CM 4

H2C CH Ph

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Poly[oxy(methyl-1,2-ethanediyl)], α-(carboxyacetyl)-ω-[(2-methyl-1-oxo-2-propenyl)oxy]-, polymer with ethenylbenzene (9CI)

(C8 H8 . (C3 H6 O)n C7 H8 O5)x

MF (C8 CI PMS

CM 1

CM 2

H2C= CH- Ph

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Propenoic acid, 2-methyl-, (2-methyl-phenyl)methyl ester, polymer with α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(1,3-dioxo-1,3-propanediyl)oxy-2-butene-1,4-diyl] (9C1)

MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2)x

CI PMS

CM 1

CM 2

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)

MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x

CI PMS

CM 1

CM 2

$$\begin{array}{c} \text{NH-CH-CH}_2 \\ | \\ \text{Me-C-CH}_2 - \text{SO}_3 \text{H} \\ | \\ \text{Me} \end{array}$$

CM 3

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN IN Galactitol, 1,2:5,6-dianhydro-, bis(hydrogen propanedioate) (9CI) MF C12 H14 010

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 D-Mannonic acid, 5-0-(2-0-acetyl-D-mannopyranosyl)-, 16-(2-carboxy-3-hydroxyphenyl)-1-methylhexadecyl ester, 2-acetate 6-(hydrogen propanedioate)
MF C43 H66 020

Absolute stereochemistry. Rotation (-).

Currently available stereo shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN D-Mannonic acid, 5-O-(2-O-acetyl-D-mannopyranosyl)-, 18-(2-carboxy-3hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedicate) C45 H68 O21
- MF

Absolute stereochemistry. Rotation (-). Currently available stereo shown.

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Propanedioic acid, mono[(2-ethyl-1-oxobutoxy)methyl] ester (9CI)
- MF C10 H16 O6

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI)
- MF C6 H8 O6

O || AcO-CH₂-O-C-CH₂-CO₂H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN 2-Propenoic acid, 2-methyl-, tridecyl ester, polymer with dodecyl 2-propenoate and 2-hydroxyethyl 2-propenoate, 2-[(1-oxo-2-propenyl)oxy]ethyl propanedioate (9CI)
- MF (C17 H32 O2 . C15 H28 O2 . C5 H8 O3)x . x C8 H10 O6

CM :

CM

CM 3

O CH2

Me- (CH2)12-0-C-C-Me

CM

0 || Me- (CH2)11-0-C-CH-CH2

CM 5

- L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Propanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester (9CI)

MF C8 H10 O6

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Poly[oxy(methyl-1,2-ethanediyl)], α -(carboxyacetyl)- ω -[(2-
- methyl-1-oxo-2-propenyl)oxy]- (9CI)
- MF (C3 H6 O)n C7 H8 O5
- CI IDS, PMS, COM

- L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 - N Poly[oxy(1,3-dioxo-1,3-propanediy1)oxy-2-butene-1,4-diy1],
- α-hydro-ω-[(2-methyl-1-oxo-2-propenyl)oxy]- (9CI)
 MF (C7 H8 O4)n C4 H6 O2
- CI PMS, COM

- L7 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester (9CI)
- MF C9 H12 O6
- CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 179.28 209.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -1.60

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=> 17 L8 14 L7

=> d 18 1-14 ti

- L8 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Ink-jet ink compositions with excellent dispersibility and storage stability and manufacture of lithographic printing plates using them
- L8 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI F-16438s, novel binding inhibitors of CD44 and hyaluronic acid. II. Producing organism, fermentation, isolation, physico-chemical properties and structural elucidation
- L8 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI F-16438s, novel binding inhibitors of CD44 and hyaluronic acid. Establishment of an assay method and biological activity
- L8 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Gloeoporus for manufacture of inhibitors to Hyaluronic acid receptor CD44
- L8 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Polymerizable compositions containing certain cyanine dyes with excellent storage stability and IR sensitivity and presensitized lithographic plates using them
- L8 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Process for preparation of malonic acid monoesters
- L8 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Process for preparation of carbapenem derivatives

- L8 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Oily ink compositions for electrostatic ink-jet printing with good discharge stability and images having high clearness and adhesion strength
- L8 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Resin composition for electrophotographic toner
- L8 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Ultraviolet rav-curable adhesive compositions for metal hubs
- L8 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Reactive emulsifiers for emulsion polymerization of vinyl compounds
- L8 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Electrophotographic light-sensitive material
- L8 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
- TI High-contrast silver halide photographic material
- L8 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
 TI RP-HPLC assay for 1,2-5,6-dianhydro-3,4-disuccinylgalactitol and its
 metabolites in blood plasma and liver

| => file reg
COST IN U.S. DOLLARS
FULL ESTIMATED COST | SINCE FILE
ENTRY
7.92 | TOTAL
SESSION
217.69 |
|--|-----------------------------|----------------------------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL
SESSION |
| CA SUBSCRIBER PRICE | 0.00 | -1.60 |

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http://www.cas.org/support/stngen/stndoc/properties.html

=> e Propanedioic acid, mono((acetyloxy)methyl) ester/cn
E1 1 PROPANEDIOIC ACID, MONO((8-FORMYL-4,15,15-TRIMETHYL-14-OXABI
CYCLO(11.2.1)HEXADECA-4,8-DIEN-12-YL)METHYL) ESTER, (1R-(1R*
,47,8E,128*,138*))-/CN

| E 2 | 1 | PROPANEDIOIC ACID, MONO((8A-((ACETYLOXY)METHYL)-5-(2-(3-FURA |
|------------|-------|---|
| | | NYL)ETHYL)-3,4,4A,5,6,7,8,8A-OCTAHYDRO-5,6-DIMETHYL-1-NAPHTH |
| | | ALENYL) METHYL) ESTER, (4AR-(4AA, 5A, 6B, 8A.BE
TA.))-/CN |
| E.3 | 1 . | PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN |
| E4 | 1> | |
| E4 | 1 | PROPANEDIOIC ACID, MONO((BIS(2-HYDROXYPHENYL)METHYLENE)HYDRA ZIDE)/CN |
| E5 | 1 | PROPANEDIOIC ACID, MONO((DECAHYDRO-1, 4A-DIMETHYL-6-METHYLENE |
| | | -5-(3-METHYL-2,4-PENTADIENYL)-1-NAPHTHALENYL)METHYL) ESTER, |
| | | (1R-(1A, 4AA, 5B(Z), 8AB))-/CN |
| E6 | 1 | PROPANEDIOIC ACID, MONO(Γ-Ω-PERFLUORO-C8-12-ALKY |
| | | L) DERIVS., BIS(4-(ETHENYLOXY)BUTYL) ESTERS/CN |
| E7 | 1 | PROPANEDIOIC ACID, MONO (Γ-Ω-PERFLUORO-C8-12-ALKY |
| | _ | L) DERIVS., DI-ME ESTERS/CN |
| E8 | 1 | PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) 2-(((2-ETHOXY-2-O |
| | - | XOETHYL)AMINO)THIOXOMETHYL)HYDRAZIDE/CN |
| E9 | 1 | PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER/CN |
| E10 | ī | PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-((5-CHLO |
| 210 | - | RO-1H-INDOL-2-YL) CARBONYL) HYDRAZIDE/CN |
| E11 | 1 | PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, 2-METHYL-2 |
| | - | - (PHENYLTHIOXOMETHYL) HYDRAZIDE/CN |
| E12 | 1 | PROPANEDIOIC ACID, MONO(1,1-DIMETHYLETHYL) ESTER, AMMONIUM S |
| 212 | | ALT/CN |
| | | ABI/CN |
| => e3 | | |
| 1.9 | 1 "PD | OPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER"/CN |
| 27 | 1 11 | OF AND DIOTO ACID, MONO ((ACDITBOAT) METHOD, ESTER / CN |
| => d 19 | | |
| I.9 ANSWER | | PROTORDY CORVERSORS AGAIN AGAIN AGAIN |
| | | REGISTRY COPYRIGHT 2008 ACS on STN |
| | | REGISTRY |
| | | |

ED Entered STN: 19 May 2004

CN Propanedioic acid, mono[(acetyloxy)methyl] ester (9CI) (CA

INDEX NAME) MF C6 H8 O6

SR CA

LC STN Files: CA, CAPLUS

Aco-CH2-O-C-CH2-CO2H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 225.30 7.61 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -1.60

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=> 19
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L10 1 L9

=> d 110 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

TI Process for preparation of malonic acid monoesters

AN 2004:354912 CAPLUS

DN 140:374903

I Process for preparation of malonic acid monoesters

IN Sawabe, Takehiko; Aihara, Kazuhiro; Atsumi, Kunio; Ajito, Keiichi

PA Meiji Seika Kaisha, Ltd., Japan

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 2

| PAN. | PATENT NO. | | | | | KIN | D | DATE | | | | | | DATE | | | | |
|------|------------------------------|-----|-----|--------|-----|------|------|---------------------------------------|-----------------|-----|------|-------|------|------|------|------|------|-----|
| PI | WO 2004035540 | | | | A1 | _ | | | WO 2003-IP13319 | | | | | | | | | |
| | | W: | | | | | | AU, | | | | | | | | | | |
| | | | | | | | | DK, | | | | | | | | | | |
| | | | | | | | | IL, | | | | | | | | | | |
| | | | | | | | | MA, | | | | | | | | | | |
| | | | | | | | | RO, | | | | | | | | | TJ, | TM, |
| | TN, TR, TT
RW: GH, GM, KE | | | | | | | | | | | | | | | | D11 | |
| | | RW: | | | | | | | | | | | | | | | | |
| | | | | | | | | TM, | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | Br, BU, Cr, | | | cu, | C1, | CPI, | GA, | GN, GQ, GW, ML, MR,
JP 2002-304630 | | | | | | | | | | |
| | | | | | | | | JP 2003-50293 | | | | | | | 0030 | | | |
| | AU 2003301426 | | | A1 | | 2004 | 0504 | | | | | | | | 0031 | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | 0030 | |
| | | | | | | | | | | | WO 2 | 003- | JP13 | 319 | 1 | vi 2 | 0031 | 017 |
| | EP 1561748 | | | A1 200 | | | 0810 | | EP 2003-75 | | 7566 | 56680 | | 2 | 0031 | 017 | | |
| | | R: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, |
| | | | IE, | SI, | LT, | LV, | FI, | RO, | MK, | CY, | AL, | TR, | BG, | CZ, | EE, | HU, | SK | |
| | | | | | | | | | | | JP 2 | 002- | 3046 | 30 | - 2 | A 2 | 0021 | 018 |

| US 20050272950 | | | | | A1 | | 20051208 | | JP 2003-50293
WO 2003-JP13319
US 2005-531382
JP 2002-304630
JP 2003-50293
WO 2003-JP13319 | | | W 20031
20050
A 20021
A 20030 | | 017
415
018
227 | | | |
|----------------|---------------|-------|------|-------------|-----|-----|----------------|-----|--|------|------|--|-----|--------------------------|-----|----------|-----|
| PATEN | IT FAMIL | Y INE | FORM | OITA | N: | | | | | | | | | | | | |
| | 2004:35 | | | | | | | | | | | | | | | | |
| | PATENT NO. | | | | | | | | | | | | | | | | |
| PT | | | | | | | | | | | | | | | | | |
| PI | WO 2004035539 | | | | | | | | | | | BZ, CA, CH, CN, | | | | | |
| | W: | | | | | | | | | | | | | | | | |
| | | | | | | | DK, | | | | | | | | | | |
| | | | | | | | IL, | | | | | | | | | | |
| | | | | | | | MA, | | | | | | | | | | |
| | | | | | | | RO, | | | | | | | | | ТJ, | TM, |
| | | | | | | | UG, | | | | | | | | | | |
| | RW: | | | | | | MZ, | | | | | | | | | | |
| | | | | | | | TM, | | | | | | | | | | |
| | | | | | | | IE, | | | | | | | | | | |
| | | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG |
| | | | | | | | | | | | 002- | | | | | 0021 | 018 |
| | AU 2003301425 | | | A1 20040504 | | | AU 2003-301425 | | | | | 20031017 | | | | | |
| | | | | | | | | | | JP 2 | 002- | 3046 | 30 | 1 | A 2 | 20021018 | |
| | | | | | | | | | 1 | NO 2 | 003- | JP13 | 318 | 1 | W 2 | 0031 | 017 |
| OS | MARPAT | 140:3 | 3749 | 03 | | | | | | | | | | | | | |

This invention pertains to a method for producing malonic acid monoesters with general formula of HO2CCH2CO2R [where R = a group which is easily hydrolyzed in vivo] or salts, which comprises reacting malonic acid with a halide in the presence of a base. For example, acetoxymethyl bromide was reacted with malonic acid in THF in the presence of N,N-

diisopropylethylamine to give malonic acid mono-acetoxymethyl ester. This invention provides a method to make malonic acid monoesters with low cost. RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

=> sel 110 E1 THROUGH E5 ASSIGNED

=> file rea COST IN U.S. DOLLARS

CA SUBSCRIBER PRICE

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 11.76 237.06 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL. ENTRY SESSION

-0.80

-2.40

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=> e1-e5

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NUMERIC VALUE NOT VALID 'ACID'
NUMERIC VALUE NOT VALID 'MALONIC'
NUMERIC VALUE NOT VALID 'MONOESTERS'
NUMERIC VALUE NOT VALID 'PREPARATION'
NUMERIC VALUE NOT VALID 'PROCESS'
             0 ACID/TI
             0 MALONIC/TI
             0 MONOESTERS/TI
             0 PREPARATION/TI
             0 PROCESS/TI
            0 (ACID/TI OR MALONIC/TI OR MONOESTERS/TI OR PREPARATION/TI OR
L11
               PROCESS/TI)
=> s e1-e5
NUMERIC VALUE NOT VALID 'ACID'
NUMERIC VALUE NOT VALID 'MALONIC'
NUMERIC VALUE NOT VALID 'MONOESTERS'
NUMERIC VALUE NOT VALID 'PREPARATION'
NUMERIC VALUE NOT VALID 'PROCESS'
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             0 MALONIC/TI
             0 MONOESTERS/TI
             0 PREPARATION/TI
             0 PROCESS/TI
L12
             0 (ACID/TI OR MALONIC/TI OR MONOESTERS/TI OR PREPARATION/TI OR
               PROCESS/TI)
=> file caplus
COST IN U.S. DOLLARS
                                                 SINCE FILE
                                                                TOTAL
                                                      ENTRY
                                                              SESSION
FULL ESTIMATED COST
                                                      52.42
                                                               289.48
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
                                                SINCE FILE
                                                                 TOTAL
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SESSION

-2.40

ENTRY

0.00

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=> sel 110 rn

E6 THROUGH E49 ASSIGNED

=> file req

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 0.57 FULL ESTIMATED COST 290.05 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL SESSION ENTRY

0.00

-2.40

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=> s e6-e49 1 103418-33-3/BI (103418-33-3/RN) 1 103418-34-4/BI (103418-34-4/RN) 1 108-48-5/BI (108-48-5/RN) 1 109-99-9/BI (109-99-9/RN) 1 1112-67-0/BI (1112-67-0/RN) 1 121-44-8/BI

(121-44-8/RN)

1 141-82-2/BI

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    (530-62-1/RN)
1 53064-79-2/BI
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             1 99464-83-2/BI
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               OR 1112-67-0/BI OR 121-44-8/BI OR 141-82-2/BI OR 35180-01-9/BI
               OR 40510-86-9/BI OR 40930-71-0/BI OR 50893-36-2/BI OR 50972-20-8
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               37-8/BI OR 683251-39-0/BI OR 683251-42-5/BI OR 683251-45-8/BI
               OR 683251-48-1/BI OR 683251-50-5/BI OR 683251-53-8/BI OR 683251-
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               95775-10-3/BI OR 98298-66-9/BI OR 99464-83-2/BI)
=> d his
     (FILE 'HOME' ENTERED AT 08:55:53 ON 16 APR 2008)
     FILE 'REGISTRY' ENTERED AT 08:56:05 ON 16 APR 2008
                E MALONIC ACID/CN
                E E12
                E E12
                E E12
T. 1
              1 E4
                E PRPANDIOIC ACID, ETHYL ESTER/CN
                E POPANDIOIC ACID, ETHYL ESTER/CN
                E PROPANEDIOIC ACID, ETHYL ESTER/CN
                E PROPANEDIOIC ACID, METHYL ESTER/CN
              1 E3
     FILE 'CAPLUS' ENTERED AT 08:59:56 ON 16 APR 2008
L3
        1653089 L
L4
              2 L2
     FILE 'REGISTRY' ENTERED AT 09:17:55 ON 16 APR 2008
L5
                STRUCTURE UPLOADED
              0 SEARCH L5 SSS SAM
1.6
             19 SEARCH L5 SSS FULL
     FILE 'CAPLUS' ENTERED AT 09:19:56 ON 16 APR 2008
L8
             14 L7
     FILE 'REGISTRY' ENTERED AT 09:23:16 ON 16 APR 2008
                E PROPANEDIOIC ACID, MONO((ACETYLOXY)METHYL) ESTER/CN
1.9
              1 E3
     FILE 'CAPLUS' ENTERED AT 09:24:09 ON 16 APR 2008
1.10
              1 1.9
                SEL L10
```

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FILE 'REGISTRY' ENTERED AT 09:26:07 ON 16 APR 2008
              0 E1-E5
              0 S E1-E5
     FILE 'CAPLUS' ENTERED AT 09:27:14 ON 16 APR 2008
                SEL L10 RN
     FILE 'REGISTRY' ENTERED AT 09:27:37 ON 16 APR 2008
L13
             44 S E6-E49
=> 17 not 113
L14
           15 L7 NOT L13
=> d scan
L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
     Poly[oxy(methyl-1,2-ethanediyl)], \alpha-(carboxyacetyl)-\omega-[(2-
    methyl-1-oxo-2-propenyl)oxy]-, polymer with ethenylbenzene (9CI)
MF
     (C8 H8 . (C3 H6 O)n C7 H8 O5)x
    PMS
    CM
         1
     CM
        2
H_2C = CH - Ph
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):15
L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN
    Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester,
     polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate) and methyl
     2-methy1-2-propenoate (9CI)
MF
    (C10 H14 O4 . C9 H12 O6 . C5 H8 O2)x
    PMS
    CM
          1
    CM 2
```

CM 3

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN IN

Propanedioic acid, 1-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl] ester, polymer with cyclohexyl 2-methyl-2-propenoate and methyl

2-methyl-2-propenoate (C10 H16 O2 . C9 H12 O6 . C5 H8 O2)x MF CI

PMS

CM

CM 2

CM 3

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN Poly[oxy(1,3-dioxo-1,3-propanedly1)oxy-2-buttene-1,4-diyl], \$\alpha\$-buttene-1,2-methy1-1-xox-2-propenyl)oxy]- (9C1)

MF (C7 H8 O4)n C4 H6 O2

CI PMS, COM

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Propanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester (9CI)

MF C8 H10 O6

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN D-Mannonic acid, 5-0-(2-0-acetyl-D-mannopyranosyl)-, 18-(2-carboxy-3-hydroxyphenyl)-1-methyl-17-oxooctadecyl ester, 2-acetate 6-(hydrogen propanedioate)

MF C45 H68 O21

Absolute stereochemistry. Rotation (-). Currently available stereo shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Galactitol, 1,2:5,6-dianhydro-, bis(hydrogen propanedioate) (9CI)
MF C12 H14 010

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 2-Propenoic acid, 2-methyl-, (2-methylphenyl)methyl ester, polymer with α -hydro- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(1,3-dioxo-

1,3-propanediyl)oxy-2-butene-1,4-diyl] (9CI)
MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2)x

MF (C12 H14 O2 . (C7 H8 O4)n C4 H6 O2). CI PMS

CM

CM :

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IN 2-Butenedioic acid (2E)-, bis(2-ethylhexyl) ester, polymer with
 ethenylbenzene, 2,5-furandione and 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl
hydrogen propanedioate (9CI)
MF (C20 H36 04 . C9 H12 06 . C8 H8 . C4 H2 03)x

MF (C20 H36 O4 . C9 H12 O6 . C8 H8 . C4 H2 O3) CI PMS

CM 1

CM 2

Double bond geometry as shown.

CM 3

CM ·

H2C CH-Ph

- MF C45 H70 O20

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
- IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester
 (9CI)
- MF C9 H12 O6
- CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Poly[oxy(methyl-1,2-ethanediyl)], α -(carboxyacetyl)- ω -[(2-

methyl-1-oxo-2-propenyl)oxy]- (9CI)

MF (C3 H6 O)n C7 H8 O5

IDS, PMS, COM

$$\begin{array}{c|c} O & O & CH_2 \\ HO_2C-CH_2-C & O-(C_3H_6) & n & O-C-C-Me \end{array}$$

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

2-Propenoic acid, 2-methyl-, tridecyl ester, polymer with dodecyl 2-propenoate and 2-hydroxyethyl 2-propenoate, 2-[(1-oxo-2-

propenyl)oxylethyl propanedioate (9CI) MF

(C17 H32 O2 . C15 H28 O2 . C5 H8 O3)x . x C8 H10 O6

CM 1

$$\begin{array}{c} {\bf 0} \\ {\bf 0} \\ {\bf 0} \\ {\bf 0} \\ {\bf 0} \end{array}$$

CM

CM

CM

CM 5

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN D-Mannonic acid, 5-0-(2-0-acetyl-D-mannopyranosyl)-, 16-(2-carboxy-3-hydroxyphenyl)-1-methylhexadecyl ester, 2-acetate 6-(hydrogen propanedioate)

MF C43 H66 O20

Absolute stereochemistry. Rotation (-). Currently available stereo shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Propanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(ethenylamino)-2-methyl-1-propanesulfonic acid and methyl 2-propenoate (9CI)

MF (C9 H12 O6 . C6 H13 N O3 S . C4 H6 O2)x

?T

PMS CM 1

CM 2

CM 3

0 || MeO-C-CH--CH-

ALL ANSWERS HAVE BEEN SCANNED

| => logoff hold
COST IN U.S. DOLLARS | SINCE FILE TOTA
ENTRY SESSIO | | | | | |
|--|---------------------------------|------------------|--|--|--|--|
| FULL ESTIMATED COST | 3.68 | 293.73 | | | | |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE
ENTRY | TOTAL
SESSION | | | | |
| CA SUBSCRIBER PRICE | 0.00 | -2.40 | | | | |

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:32:20 ON 16 APR 2008